# SCD-XB790

# SERVICE MANUAL

*AEP Model*
*UK Model*

**Ver 1.0 2003.04**

| | |
|---|---|
| Model Name Using Similar Mechanism | SCD-XB780 |
| CD Mechanism Type | CDM66B-DVBU6B |
| Base Unit Name | DVBU-6B |
| Optical Pick-up Name | KHM-234AMA |

## SPECIFICATIONS

**When a super audio CD is played**

**Playing frequency range** 2 Hz to 100 kHz

**Frequency response** 2 Hz to 50 kHz (–3 dB)

**Dynamic range** 104 dB or more

**Total harmonic distortion rate** 0.0018 % or less

**Wow and flutter** Value of measurable limit (±0.001 % W. PEAK) or less

**When a CD is played**

**Frequency response** 2 Hz to 20 kHz

**Dynamic range** 99 dB or more

**Total harmonic distortion rate** 0.002 % or less

**Wow and flutter** Value of measurable limit (±0.001 % W. PEAK) or less

**Output connector**

| | Jack type | Output level | Load impedance |
|---|---|---|---|
| ANALOG OUT | Phono jacks | 2 Vrms (at 50 kilohms) | Over 10 kilohms |
| DIGITAL (CD) OUT OPTICAL* | Square optical output connector | –18 dBm | (Light emitting wave length: 660 nm) |
| DIGITAL (CD) OUT COAXIAL* | Coaxial output connector | 0.5 Vp-p | 75 ohms |
| PHONES | Stereo phone jack | 10 mW | 32 ohms |

*Output only the audio signals of the CD

**General**

**Laser** Semiconductor laser
(Super Audio CD: λ = 650 nm)
(CD: λ = 780 nm)
Emission duration: continuous

**Laser radiant power:** 5.47 uW at 650 nm
*These output is the value measured at a distance of about 200mm from the objective lens surface on the optical pick-up.

**Power requirements** 230 V AC, 50/60 Hz

**Power consumption** 25 W

**Dimensions (w/h/d)** 430 × 111 × 283 mm incl. projecting parts

**Mass (approx.)** 5.8 kg

**Supplied accessories**

- Audio connecting cord
  Stereo cable (1)
- Remote commander RM-SX700 (1)
- R06 (size-AA) batteries (2)

Design and specifications are subject to change without notice.

## SUPER AUDIO CD PLAYER

**9-877-171-01** **Sony Corporation**
2003D0500-1 **Home Audio Company**
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SONY

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### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product.
This label is located on the rear exterior.

The following caution label is located inside the unit.

CAUTION : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT : SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
VARO ! : NÄKYVÄÄ JA NÄKYMÄTÖN AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
FIGYELEM : A BURKOLAT MEGBONTÁSAKOR LÁTHATÓ ÉS LÁTHATATLAN LÉZERSUGÁR LÉPHET KI A KÉSZÜLÉKBÖL. ÓVAKODJON A KÖZVETLEN LÉZERSUGÁRTÓL!

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

# SECTION 1
# SERVICING NOTES

**NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT**

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

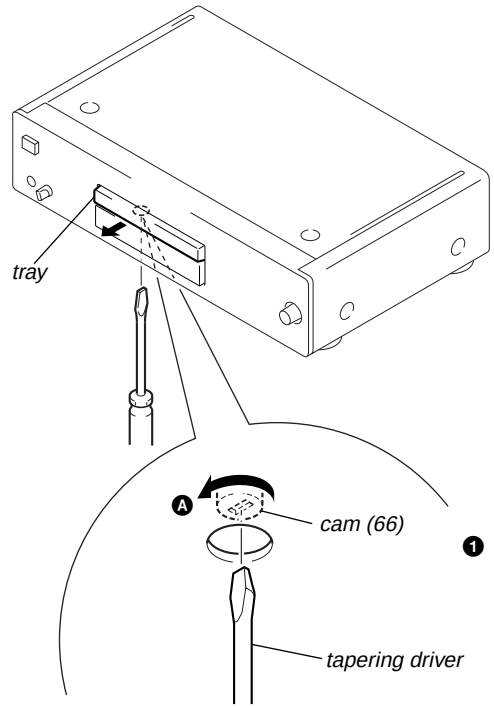
**NOTES ON LASER DIODE EMISSION CHECK**

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

**CLEANING OF OPTICAL PICK-UP LENS**

In cleaning the lens of optical pick-up, use the air blower.
Never use a cotton swab for cleaning the lens of optical pick-up, which otherwise causes a trouble.

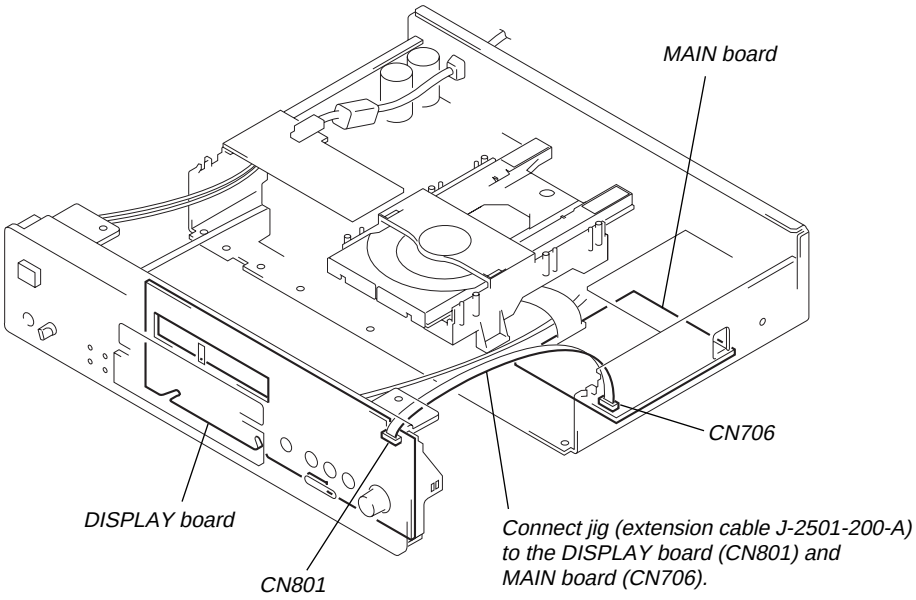
**HOW TO OPEN THE TRAY WHEN POWER SWITCH TURNS OFF**




❶ *Insert a tapering driver (3 mm in diameter) in the hole at the bottom of the unit, turn the cam (66) fully in the direction of arrow* Ⓐ.

### DISPLAY BOARD SERVICE POSITION

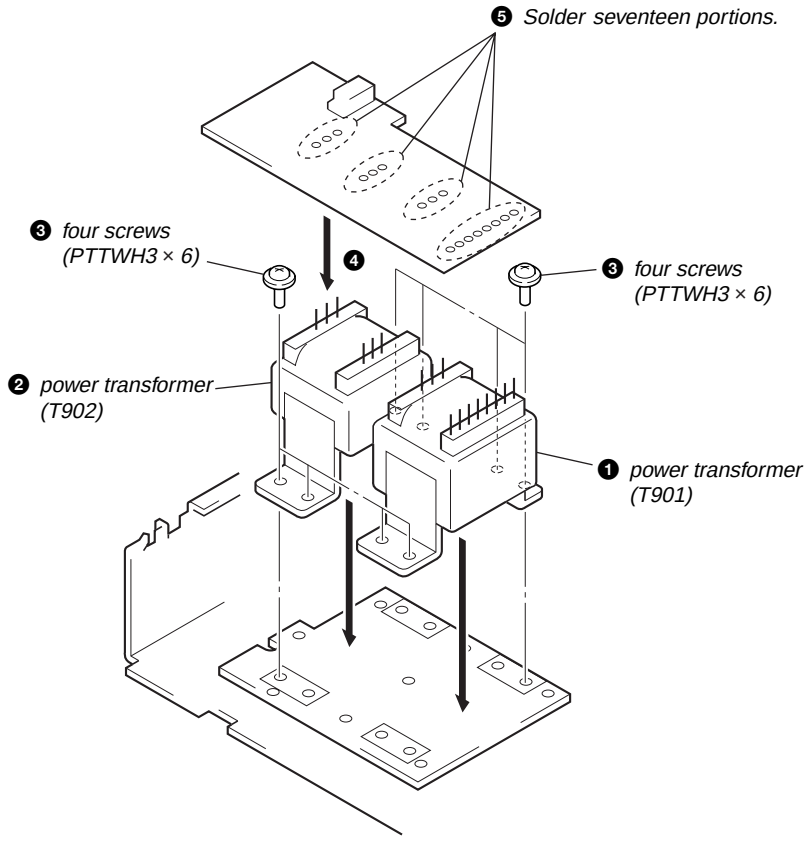
In checking the DISPLAY board, prepare jig (extension cable J-2501-200-A : 1.00 mm Pitch, 11 cores, Length 300 mm.)




**Note:** Follow the assembly procedure in the numerical order given.

### INSTALLATION OF THE TRANS BOARD

*Note : Solder the TRANS board after installing power transformers (T901, T902) to the chassis.*
*(To prevent the TRANS board from being cracked.)*



**RESETTING OPERATION AT POWER ON**

If the power is turned on with a disc loaded in the set, a sequence of operation as shown below will be performed.
(The operation varies depending on the type of disc) Condition: continue mode

(1) CD

1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for CD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment
12. Tracking & sled servo on
13. Focus bias auto adjustment
14. Focus servo gain auto adjustment
15. Tracking servo gain auto adjustment
16. Jump to lead-in area
17. Read TOC
18. Stop

(2) SACD (single layer)

1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for SACD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment
12. Tracking & sled servo on
13. Focus bias auto adjustment
14. Focus servo gain auto adjustment
15. Tracking servo gain auto adjustment
16. Jump to lead-in area
17. Read TOC
18. Stop

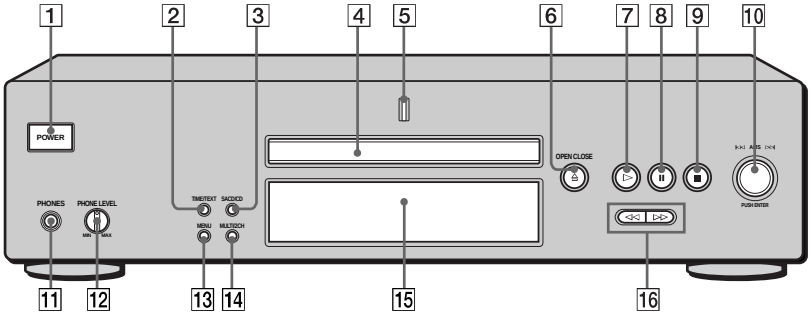
(3) SACD (dual layer)

1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for SACD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on (layer 0)
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment (layer 0)
12. Tracking & sled servo on (layer 0)
13. Focus bias auto adjustment (layer 0)
14. Focus servo gain auto adjustment (layer 0)
15. Tracking servo gain auto adjustment (layer 0)
16. Jump to lead-in area
17. Read TOC
18. Focus jump (layer 0→layer 1)
19. E-F balance auto adjustment (layer 1)
20. Tracking & sled servo on (layer 1)
21. Focus bias auto adjustment (layer 1)
22. Focus servo gain auto adjustment (layer 1)
23. Tracking servo gain auto adjustment (layer 1)
24. Focus Jump (layer 1→layer 0)
25. Stop

# SECTION 2
# GENERAL

This section is extracted from instruction manual.

## Front Panel Parts Descriptions




**1 POWER switch**
Press to turn on the player.

**2 TIME/TEXT button**
Each time you press the button, the playing time of the track, the total remaining time on the disc, or TEXT information appears in the display.

**3 SACD/CD button**
Each time you press the button while playing back a hybrid disc, the layer to be played back switches between the HD (Super Audio CD) layer and the CD layer.

**4 Disc tray**
Press ⏏ OPEN/CLOSE to open/close the disc tray.

**5 Multi-channel Indicator**
Turns on when you turn on the player, or when the Multi-channel Super Audio CD is loaded and select the Multi-channel playback area by pressing MULTI/2CH.

**6 ⏏ OPEN/CLOSE button**
Press to open the disc tray.

**7 ▷ button**
Press to start play.

**8 ❚❚ button**
Press to pause play.

**9 ■ button**
Press to stop play.

**10 ⏮ AMS ⏭ dial (AMS: Automatic Music Sensor)**
When you turn the ⏮ AMS ⏭ dial counterclockwise by one click, you go back to the preceding track; when you turn the ⏮ AMS ⏭ dial clockwise by one click, you go to the succeeding track.

**11 PHONES**
Connect the headphones.
During playback of a Multi-channel Super Audio CD, the same signal that is output from the ANALOG 5.1CH FRONT L/R jacks is output from the PHONES jack.

**12 PHONE LEVEL**
Adjust the headphones volume.

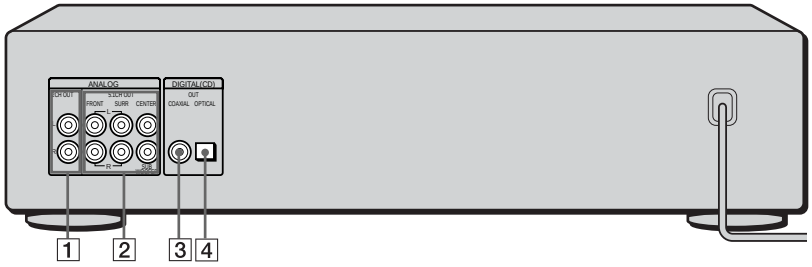
**13 MENU (13)**
Press to enter the menu.
Press to exit from the menu and return to the normal display.

**14 MULTI/2CH button**
Press to select the playback area when the 2 channel + Multi-channel Super Audio CD is loaded.

**15 Display window**
Shows various information.

**16 ◀◀/▶▶ buttons**
Press to locate a portion you want to play within a track.

## Rear Panel Parts Descriptions




**1 ANALOG 2CH OUT L/R jacks**
Connect to an audio component (stereo/2 channel) using the audio connecting cord.

**2 ANALOG 5.1CH OUT jacks**
Connect to an amplifier equipped with the 5.1CH input jacks (Multi-channel amplifier, AV amplifier, etc.) using the audio connecting cords.

**3 DIGITAL (CD) OUT COAXIAL connector**
Connect to an audio component using the coaxial digital cable.

**4 DIGITAL (CD) OUT OPTICAL connector**
Connect to an audio component using an optical digital cable.

**Note**
Only the audio signals of the CD can be output from the DIGITAL (CD) OUT connectors shown in 3 and 4. Those of the Super Audio CD cannot be output through DIGITAL (CD) OUT.

## Remote Parts Descriptions

1 **CONTINUE button**
Press to resume normal play from Shuffle Play or Programme Play.

**SHUFFLE button**
Press to select Shuffle Play.

**PROGRAM button**
Press to select Programme Play.

2 **DISPLAY MODE button**
Press to turn off the information.

3 **TIME/TEXT button**
Each time you press the button, the playing time of the track, the total remaining time on the disc, or TEXT information appears in the display.

4 **Number buttons**
Press to enter the track numbers.

5 **>10 button**
Press to locate a track numbered over 10.

6 **REPEAT button**
Press repeatedly to play all tracks or only one track on the disc.

7 **A↔B button**
Press to select Repeat A-B Play.

8 **▷ button**
Press to start play.

**II button**
Press to pause play.

**■ button**
Press to stop play.

9 **AMS I◀◀ /▶▶I (AMS: Automatic Music Sensor) buttons**
Press to locate a specific track.

10 **◀◀/▶▶ buttons**
Press to locate a portion you want to play within a track.

11 **INDEX —/— buttons**
Press to locate a specific point marked with an index signal when you play a disc that has index signals.

12 **SACD/CD button**
Each time you press the button while playing back a hybrid disc, the layer to be played back switches between the HD (Super Audio CD) layer and the CD layer.

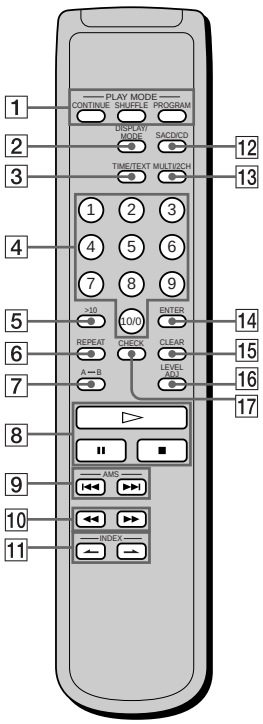
13 **MULTI/2CH button**
Press to select the playback area when the 2 channel + Multi-channel Super Audio CD is loaded.

14 **ENTER button**
Press to decide the selection.

15 **CLEAR button**
Press to delete a programmed track number.

16 **LEVEL ADJ button**
Press to adjust the output level balance for the Multi-channel management function.

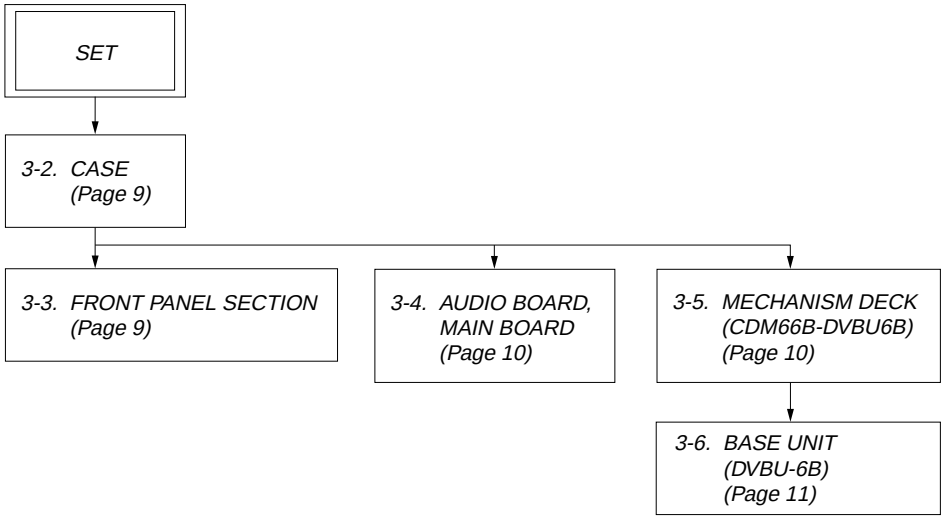
17 **CHECK button**
Press to check the programmed order.



# SECTION 3
# DISASSEMBLY

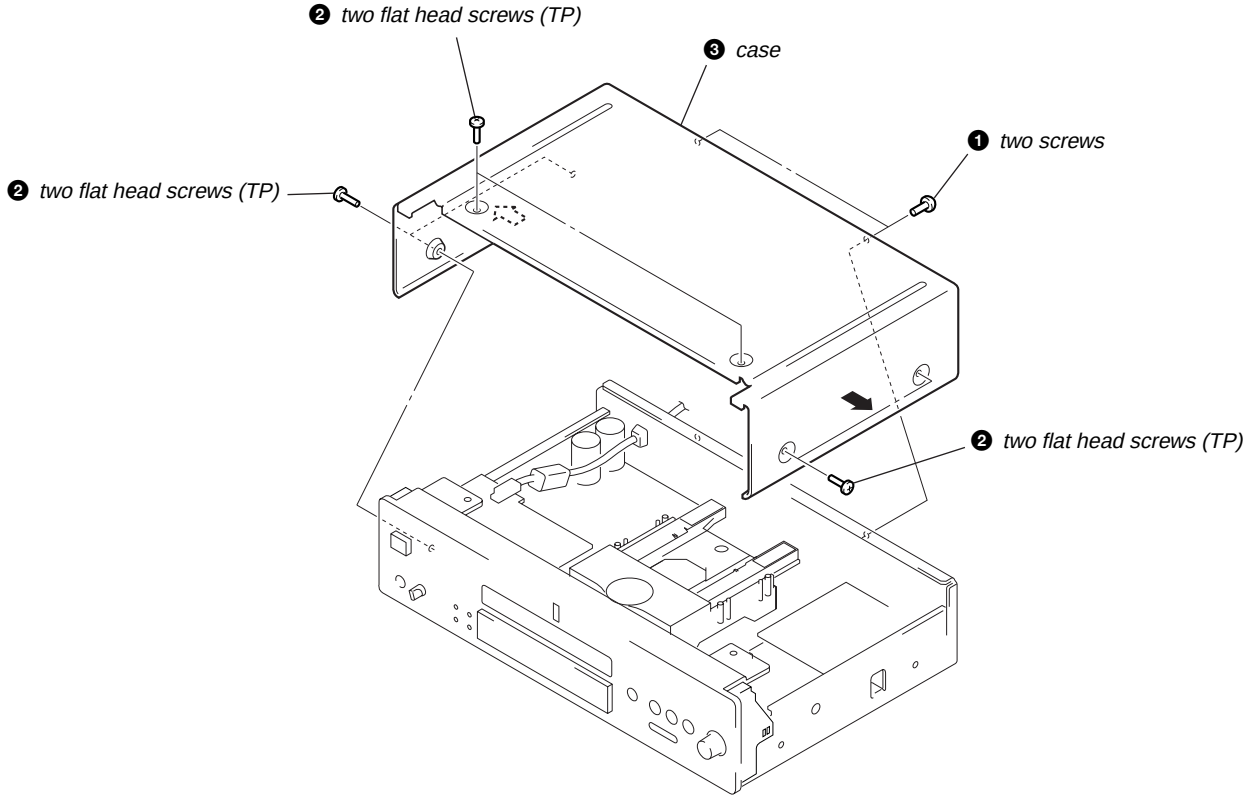
• This set can be disassembled in the order shown below.

## 3-1. DISASSEMBLY FLOW

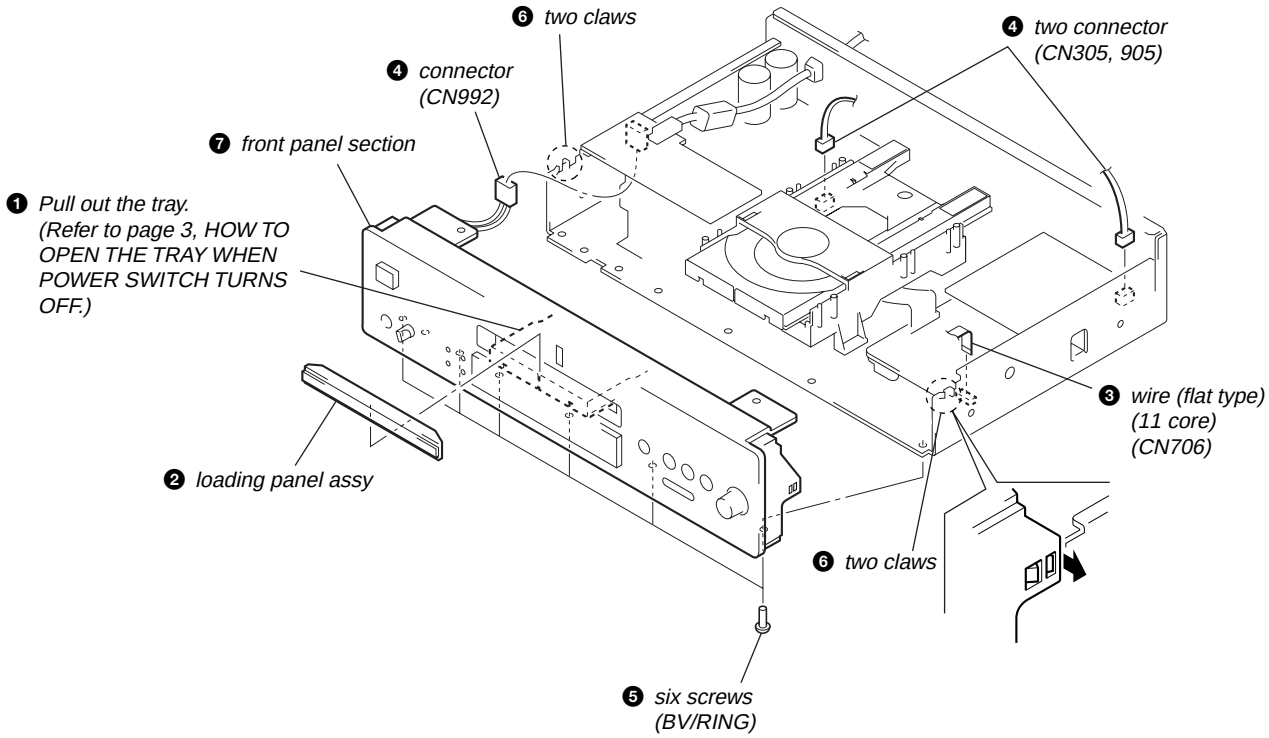


**Note:** Follow the disassembly procedure in the numerical order given.

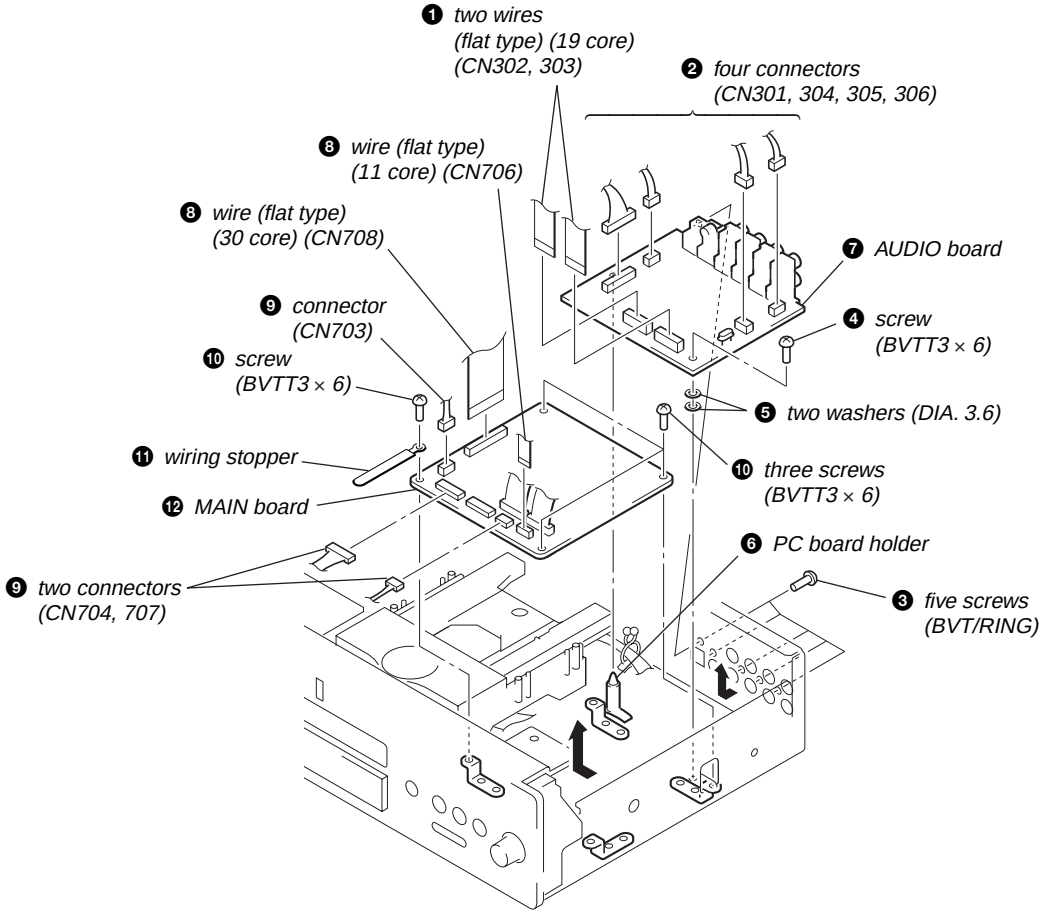
### 3-2. CASE



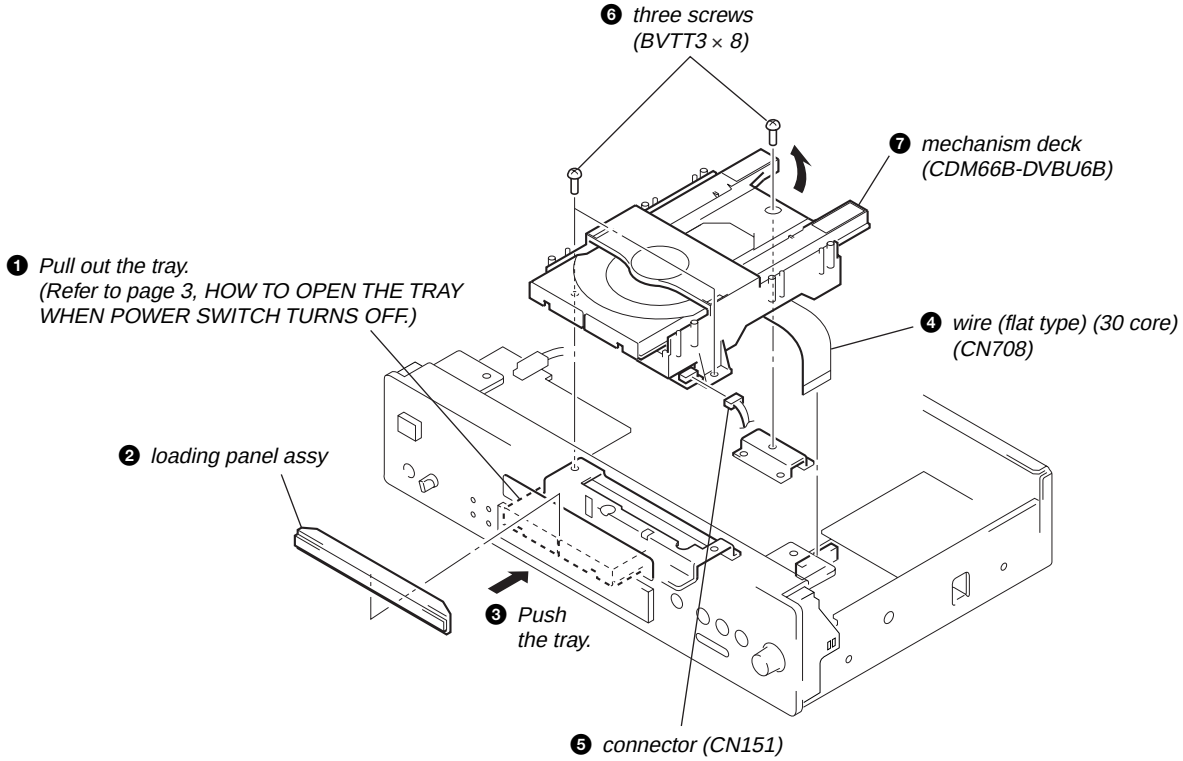

### 3-3. FRONT PANEL SECTION


❻ two claws
❹ two connector (CN305, 905)
❹ connector (CN992)
❼ front panel section
❶ Pull out the tray. (Refer to page 3, HOW TO OPEN THE TRAY WHEN POWER SWITCH TURNS OFF.)
❸ wire (flat type) (11 core) (CN706)
❷ loading panel assy
❻ two claws
❺ six screws (BV/RING)

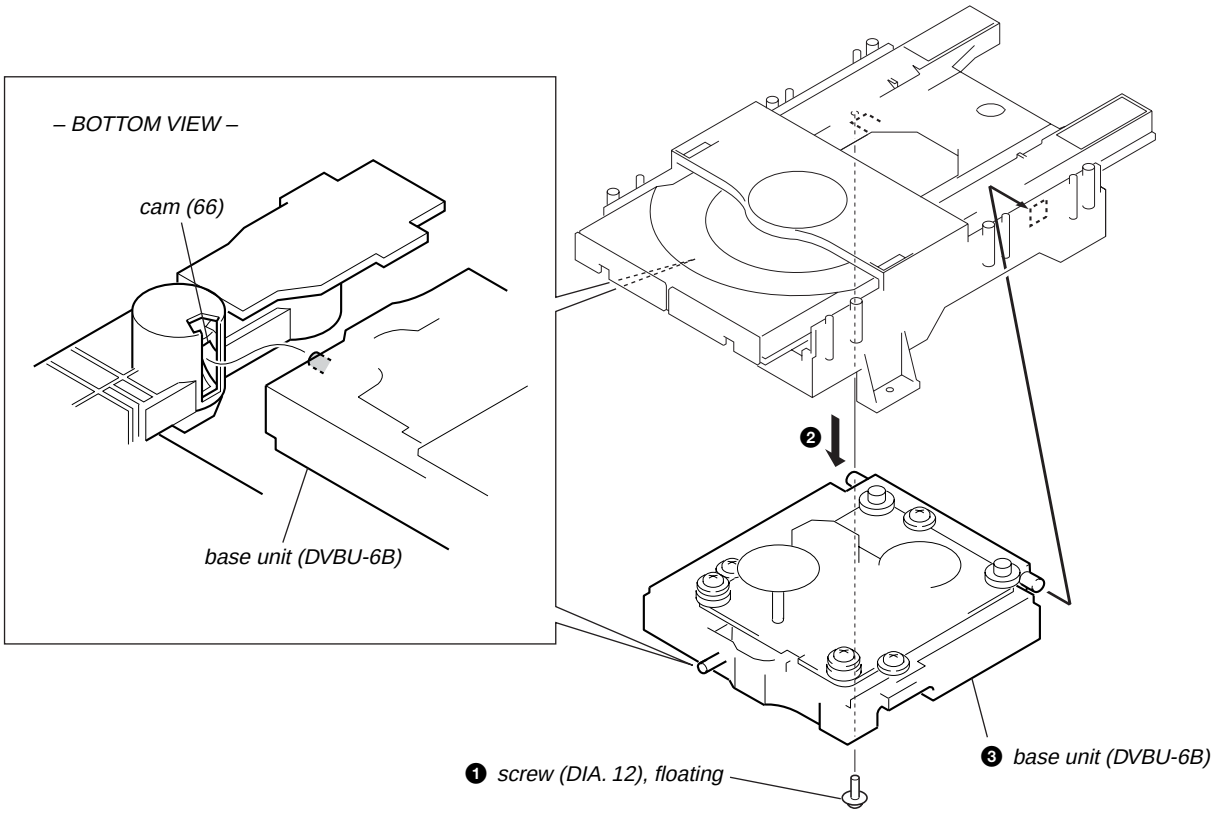
### 3-4. AUDIO BOARD, MAIN BOARD


❶ two wires (flat type) (19 core) (CN302, 303)
❷ four connectors (CN301, 304, 305, 306)
❽ wire (flat type) (11 core) (CN706)
❽ wire (flat type) (30 core) (CN708)
❼ AUDIO board
❾ connector (CN703)
❹ screw (BVTT3 × 6)
❿ screw (BVTT3 × 6)
❺ two washers (DIA. 3.6)
⓫ wiring stopper
❿ three screws (BVTT3 × 6)
⓬ MAIN board
❻ PC board holder
❾ two connectors (CN704, 707)
❸ five screws (BVT/RING)

### 3-5. MECHANISM DECK (CDM66B-DVBU6B)


❻ three screws (BVTT3 × 8)
❼ mechanism deck (CDM66B-DVBU6B)
❶ Pull out the tray. (Refer to page 3, HOW TO OPEN THE TRAY WHEN POWER SWITCH TURNS OFF.)
❹ wire (flat type) (30 core) (CN708)
❷ loading panel assy
❸ Push the tray.
❺ connector (CN151)

### 3-6. BASE UNIT (DVBU-6B)



# SECTION 4
# TEST MODE

In this set, various checks are automatically performed by executing the commands in the test mode.

**Note:** This set makes adjustment every optical pick-up and stores its result in the EEPROM (IC903) on the MAIN board. Accordingly, if a combination of optical pick-up and EEPROM is changed, be sure to perform 4-3. SET CHECK. Also, perform 4-1. IC INTERFACE CHECK, 4-2. DISPLAY CHECK, and 4-6. WAVEFORMS CHECK.

### Disc for Test Mode

Various checks of this set require the following discs.

| Model | Type *1 | Category | Application |
|---|---|---|---|
| MODEL SATD-S5 (J-2501-215-A) SATD-S4 (J-2501-184-A) | SL | 12 cm disc Reference disc | Adjusted value check, Operation check, Optical waveform check |
| Not specified | DL | 12 cm disc | Operation check |
| PATD-012 (4-225-203-01) YEDS-18 (3-702-101-01) | CD | 12 cm disc Reference disc | Adjusted value check, Operation check, Optical waveform check |
| Not specified | HYBRID | 12 cm disc | Operation check |

*1 SL: Single Layer
DL: Dual Layer

### Setting Method of Test Mode

Turn the [POWER] button on while pressing the [⏮ AMS ⏭] dial and the [MENU] button. Release the [MENU] button and the [⏮ AMS ⏭] dial in this order when "DIAG MODE" is displayed on the fluorescent indicator tube.

### Releasing Method of Test Mode

To release the test mode, turn the [POWER] switch off.

### Selection/Entry of Test Mode

To select and enter the "DIAG MODE", operate as follows.

1. Rotate the [⏮ AMS ⏭] dial to select the menu, and press the [⏮ AMS ⏭] dial to enter.
2. The test is switched on or off alternately each time the [⏮ AMS ⏭] dial is pressed.
3. To return to the previous step, rotate the [⏮ AMS ⏭] dial to select the desired item, and press the [⏮ AMS ⏭] dial to enter.

### Test Mode Command List

The contents of test mode are as follows.

**Note:** Wrong operation in the test mode causes a trouble, thus requiring extreme care.

LINE command (0X): Use mainly for a manufacturing line.

| No. | Name | Description | Remarks |
|---|---|---|---|
| 00 | RFAmp Read | Each register set value of the IC001 (RF AMP) is displayed via RS-232C | Not used for the servicing |
| 05 | DSP MON1 | XUGF, XPCK, C2PO outputted from IC509 (CD DSP) | Not used for the servicing |
| 06 | DSP MON2 | MNT0, MNT1, MNT2, MNT3 outputted from IC509 (CD DSP) | Not used for the servicing |
| 07 | DSP MON3 | RFCK, XPCK, XROF, GTOP outputted from IC509 (CD DSP) | Electrical measurement, CD CLV jitter measurement |

STANDARD command (1X): Use when the servo is applied by manual operation.

| No. | Name | Description | Remarks |
|---|---|---|---|
| 12 | LD ON/OFF | The laser diode is turned on or off | On or off are switched alternately |
| 13 | SPIN ON/OFF | The spindle motor is rotated with the regulated voltage | On or off are switched alternately |
| 14 | FSRV ON/OFF | The focus servo is turned on or off | On or off are switched alternately |
| 15 | TSRV ON/OFF | The tracking servo is turned on or off | On or off are switched alternately |
| 16 | CLV ON/OFF | The spindle SLV servo is turned on or off<br>Focus and tracking servos must be already turned on | On or off are switched alternately |
| 17 | SSRV ON/OFF | The sled servo is turned on or off<br>Focus, tracking and spindle servos must be already turned on | On or off are switched alternately |
| 18 | ALL SRV ON | All servos are turned on | |
| 19 | ALL SRV OFF | All servos are turned off | Stop command in the test mode |

FOCUS command (2X): Focus related. (All servos must be already turned on (except command 21))

| No. | Name | Description | Remarks |
|---|---|---|---|
| 21 | FSRCH ON/OFF | The continuous vertical motion of the optical pick-up lens is turned on or off | Avoid a long-time use<br>On or off are switched alternately |
| 22 | F-BIAS UP | Increase focus bias | Focus bias value |
| 23 | F-BIAS DOWN | Decrease focus bias | Focus bias value |
| 24 | ADJ FCSBIAS | The focus bias is adjusted automatically<br>Both + and - directions are searched to search for best jitter point | |
| 25 | FGAIN UP/DW | The focus servo gain is switched between normal and down | Normal or down are switched alternately |
| 27 | FOCUS AGC | The focus servo gain is adjusted automatically | |

OFFSET (PI, FE, TE) command (3X): Adjusts the offset of PI, FE and TE signals.

| No. | Name | Description | Remarks |
|---|---|---|---|
| 31 | PI/FE OFSET | Adjusts the offset of PI, FE and TE signals<br>This adjustment must be executed after 61 DISC DETECT | TE offset adjustment is executed for the CD only |

TRACKING command (4X): Tracking servo related.

| No. | Name | Description | Remarks |
|---|---|---|---|
| 41 | TGAIN NM/UP | The tracking servo gain is switched between normal and up | Normal or up are switched alternately |
| 44 | ADJ TRK DSP | The traverse AGC and E-F balance adjustment is performed | |
| 45 | TRACKING AGC | The tracking servo gain is adjusted automatically | |

SEARCH command (5X): Track search related. (Nos. 51 through 53 are not used for the servicing.)

| No. | Name | Description | Remarks |
|---|---|---|---|
| 51 | 1-TRCK JUMP | One-track jump is performed | |
| 52 | FINE SEARCH | Fine search is performed | |
| 53 | M-TRCK MOVE | M-track movement is performed | |

DISC DETECT command (6X): Disc type check related.

| No. | Name | Description | Remarks |
|---|---|---|---|
| 61 | DISC DETECT | Disc type check is executed<br>Display after judgment<br>DSKMOD CD: Judged as CD<br>DSKMOD SL: Judged as SACD (SL)<br>DSKMOD DL: Judged as SACD (DL)<br>DSKMOD HYB: Judged as HYBRID | Refer to how to apply servo by manual operation (See page 14) |
| 62 | CD SETTING | Enter disc type CD setting | CD forced setting |
| 63 | SL SETTING | Enter disc type SL setting | SL forced setting |
| 64 | DL SETTING | Enter disc type DL setting | DL forced setting |
| 6F | Download | | Not used for the servicing |

LASER command (7X): Laser of optical pick-up related.

| No. | Name | Description | Remarks |
|---|---|---|---|
| 7A | ADDTIME CD | Cumulative light emission time of the laser for CD is displayed (Initialized by 8D command) | |
| 7B | ADDTIME HD | Cumulative light emission time of the laser for SACD is displayed (Initialized by 8D command) | |
| 7C | FJUMP TEST | | Not used for the servicing |

TOOLS command (8X): Performs aging, reads adjusting parameters, etc.

| No. | Name | Description | Remarks |
|---|---|---|---|
| 81 | VERSION | Firmware version is displayed | Example: Ver 1.00 |
| 83 | TRAY AGING | Tray open-close aging is performed | Not used for the servicing |
| 87 | DISP ADJ DT | Automatic adjusting parameters are displayed via RS-232C | Not used for the servicing |
| 8A | FL CHECK | Display of fluorescent indicator tube and keys are checked | |
| 8D | SETUP MODE | Set to factory shipping mode<br>PLAY MODE, etc. are initialized | Set when repair completed<br>Refer to 4-5. SHIPPING MODE (See page 17) |

QA command (9X)

| No. | Name | Description | Remarks |
|---|---|---|---|
| 91 | FJUMP CHECK | The focus jump is checked | Not used for the servicing |
| 92 | SET CHECK | The set is checked | Refer to 4-3. SET CHECK (See page 15) |
| 93 | WATER MARK | | Not used for the servicing |
| 94 | SET AGING | The set aging is performed<br>Repeat by the specified number of times or until an error occurred | Not used for the servicing |
| 95 | FJMP CHK BU | The focus jump is checked (for jig) | Not used for the servicing |
| 9C | BU DENCHO | The S curve waveform, traverse waveform, and RF waveform can be checked successively | Refer to 4-6.WAVEFORMS CHECK (See page 17) |
| 9D | PLAY&RFD ON | SACD playback, RFD output<br>SACD jitter measuring mode | Not used for the servicing |
| 9E | RFD ON/OFF | RFD output is turned on or off<br>SACD jitter measuring mode | Not used for the servicing |

IC command (AX)

| No. | Name | Description | Remarks |
|---|---|---|---|
| A0 | IC SELF CHK | Each IC and its communication are checked | Normal or up are switched alternately |

### How to Apply Servo by Manual Operation

In analyzing failures of the set, the servo may be applied by manual operation. To apply servo in the test mode, use the following method.

1. After setting the test mode, rotate the [⏮ AMS ⏭] dial to select a command, and press the [⏮ AMS ⏭] dial to enter.
2. "61 DISC DETECT" (Disc type check)→"18 ALL SRV ON" (All servos on + auto adjustment)
3. If applying servo while checking the condition one by one, "61 DISC DETECT" (Disc type check)→"31 PI/FE OFSET" (Offset automatic adjustment)→"14 FSRV ON/OFF" (Focus servo on)→"16 CLV ON/OFF" (CLV servo on)→"44 ADJ TRK DSP " (E-F balance adjustment)→"15 TSRV ON/OFF" (Tracking servo on)→"17 SSRV ON/OFF" (Sled servo on)→"24 ADJ FCSBIAS" (Focus bias adjustment)→"27 FOCUS AGC" (Focus auto gain adjustment)→"45 TRACKING AGC" (Tracking auto gain adjustment).

**Note:** 1. On and off are alternately switched in the same command.
2. For a stop, select "19 ALL SRV OFF" and press the [⏮ AMS ⏭] dial.

### 4-1. IC INTERFACE CHECK

The communication between microcomputer and main ICs is checked.

**Checking Method:**

1. After setting the test mode, rotate the [⏮ AMS ⏭] dial to select "A0. IC SELF CHECK" and press the [⏮ AMS ⏭] dial to enter.
2. A checking will start automatically. (Checking time is about 3 seconds)
3. At successful completion of check, "IC CHECK OK" is displayed. In this case, no error exists in the IC interface.

**Note:** The check mentioned above tests the communication from microcomputer to main ICs. Even if the check successfully finished, the IC to be checked is not always normal. Consider it for reference only.

4. In case of an IC communication error, the following display will be given during the checking. Possible causes of error are as listed below.

| Error display | Causes (typical example) |
|---|---|
| DVD DEC. ERROR | 1. IC701 (SACD decoder) is faulty<br>2. IC701 pin ⑯④ (XRST) does not go "H"<br>• IC901 pin ⑤② (XDIS IO) does not go "H"<br>• IC904 (PLD) is faulty<br>3. 768fs (33.8688 MHz) is not present to IC701 pin ⑯⑦ (XTAL)<br>• IC811 (3-multiplying circuit) is faulty<br>• Clock signal 256fs is not sent from AUDIO board (CN701 pin ⑮)<br>• CN702 pin ⑥ (GND) and pin ⑦ (+3.3V-D) are open or shorted<br>• CN701, 702 and FFC connection is loose, or FFC is disconnected |
| DVD DRAM ERR | 1. IC706 (D-RAM) is faulty<br>2. IC701 pin ⑯④ (XRST) does not go "H"<br>• IC901 pin ⑤② (XDIS IO) does not go "H"<br>• IC904 (PLD) is faulty<br>3. Faulty communication line between IC701 and IC706<br>• Data line, address line, WE, etc.<br>4. D903 (1SS367) is faulty<br>D+3.3V is not present to IC706 |
| CD DSP ERROR | 1. IC509 (CD DSP) is faulty<br>2. 768fs (33.8688 MHz) is not present to IC509 pin ⑦① (XTAL)<br>Same as cause 3 of DVD DEC. ERROR<br>3. IC509 pin ② (XRST) does not go "H"<br>• IC901 pin ⑤② (XDIS IO) does not go "H"<br>• IC904 (PLD) is faulty |
| EEPROM ERROR | 1. IC903 (EEPROM) is faulty |
| SAMBA DRAM ERR (DSD decoder is also checked) | 1. IC808 (D-RAM) is faulty<br>2. IC801 (DSD decoder) is faulty<br>3. 768fs (33.8688 MHz) is not present to IC801 pin ⑪ (MCKI)<br>Same as cause 3 of DVD DEC. ERROR<br>4. IC801 pin ⑨ (XRST) does not go "H"<br>• IC901 pin ⑤② (XDIS IO) does not go "H"<br>• IC904 (PLD) is faulty<br>5. Faulty communication line between IC801 and IC808<br>• Data line, address line, WE, etc.<br>6. D904 (1SS367) is faulty<br>D+3.3V is not present to IC808 |
| RF AMP ERROR | 1. IC001 (RF AMP) is faulty<br>2. Loose connection between CN708 on MAIN board and CN005 on RF board, or FFC disconnection<br>CN708 pin ⑰ (CLK RF), pin ⑯ (DATA RF) and pin ⑮ (SDEN) must be checked |
| SD BUS ERROR | 1. IC701 SD bus and IC801 AV decoder interface is faulty<br>2. IC812 to 814 are faulty |

**Causes Common to Each IC:**

1. Faulty communication line between microcomputer and each IC.
   Disconnected patterns, floating series resistors, bridge, etc.
2. Faulty IC supply voltage.
   Particularly, check D+3.3V voltage.
3. Faulty microcomputer communication port to each IC

**Note:** In case of more than two errors, the error display is switched over one after another, thus making the reading difficult.
In such a case, press again the [⏮ AMS ⏭] dial to make a recheck for error reading.

### 4-2. DISPLAY CHECK

**Checking Method:**

1. After setting the test mode, rotate the [⏮ AMS ⏭] dial to select "8A. FL CHECK" and press the [⏮ AMS ⏭] dial to enter.
2. Respective segments of fluorescent indicator tube will automatically light up in order, and therefore check that there is no chipped character.
3. The "INPUT REMOCON" will be displayed after the segment check finished successfully, and then press a proper key on the remote commander.
4. After "JOG CHECK" is displayed, the numbers of calendar will be displayed from 1 to 15 each time the [⏮ AMS ⏭] dial is rotated clockwise.
5. After display up to 15, the numbers of calendar will disappear in order each time the [⏮ AMS ⏭] dial is rotated counterclockwise.
6. "TTX-1514?" will be displayed when all are cleared, and then press the [⏮ AMS ⏭] dial.
7. Upon display of "KEY CHECK", if a key on the display is pressed, the corresponding segment of fluorescent indicator tube will light up.
8. "FL TEST END" will be displayed if all keys are pressed.

**Note:** The keys include the [⏮ AMS ⏭] dial. If the segment that corresponds to the pressed key does not light up, that key is faulty.

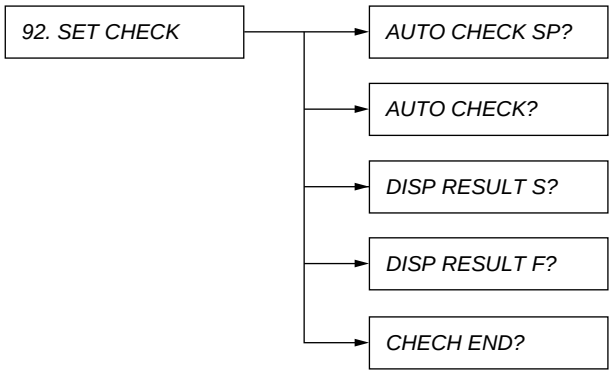
9. The test mode selection display will be back, if the [⏮ AMS ⏭] dial is pressed.

### 4-3. SET CHECK (AUTOMATIC VARIOUS MEASUREMENTS)

The operational stability of the set is checked. The check and OK/NG judgment are performed automatically.

**Note**: In the set check using the CD, besides a checking, the MIRR time used for the disc check is measured every optical pick-up, and from the measured result, the threshold value is calculated and it is stored in the EEPROM (IC903) on the MAIN board. Accordingly, if a combination of optical pick-up and EEPROM is changed (for example, the optical pick-up or MAIN board is replaced), be sure to perform the set check using the following CD. As the data stored in the EEPROM are overwritten every set check, retry if failed. For the set check using the SACD, only checking is made.

**Set Check**




The set check is executed to judge OK or NG.
(For the CD, the threshold value is stored in the EEPROM)

The set check of measurement only is executed.

The measured result is displayed via RS-232C.

The measured result is displayed on the fluorescent indicator tube.

The set check is finished.

**CD and SACD (SL) Disc Operation Check**

**Checking method:**

1. After setting the test mode, rotate the [I◁◁ AMS ▷▷I] dial to select "SET CHECK" and press the [I◁◁ AMS ▷▷I] dial to enter.
2. Upon display of "AUTO CHECK SP?", further press the [I◁◁ AMS ▷▷I] dial.
3. The tray will open automatically, and then set the test disc*1 of CD or SACD.
4. With the "DISC IN&JOG ON" displayed, press the [I◁◁ AMS ▷▷I] dial, and the check will be executed automatically.
5. "SPEC OK!" will be displayed if the measured result is within the specification. Faulty item name and the measured result will be displayed if any measured item is NG.
6. After that, "AUTO CHECK SP?" will be again displayed, and then rotate the [I◁◁AMS▷▷I] dial to select "CHECK END?". Further, press the [I◁◁AMS▷▷I] dial, and the test mode selection display will be back, and then press the [OPEN/CLOSE ⏏] button and take the test disc out.

*1 Use PATD-012 or YEDS-18 for CD, and SATD-S5 or SATD-S4 for SACD (SL). Using another disc will result in a checking failure.

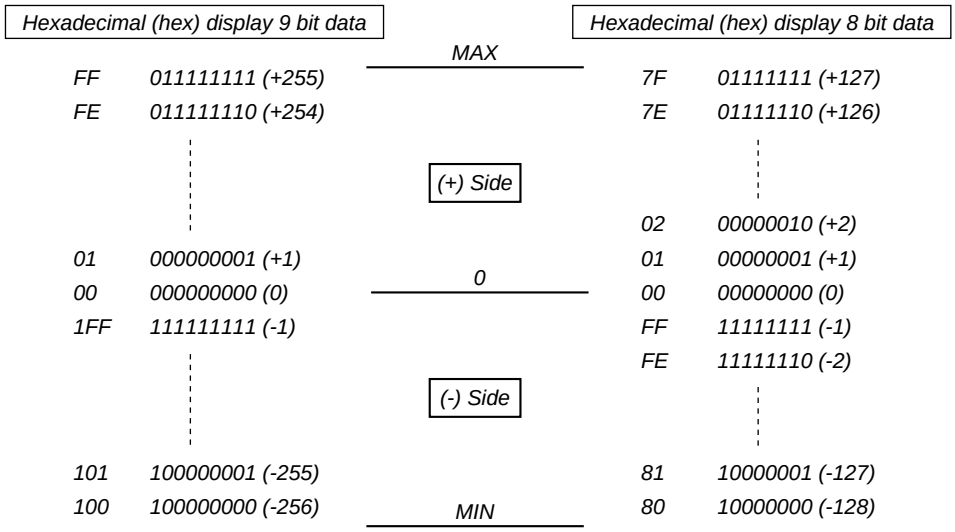
**Measured Items:**

| Items | Description | Remarks |
|---|---|---|
| RF/VC/FE/TE (ORG) | Offset values before RF (PI), VC, FE, TE signal offset adjustment<br>RF (8 bit data in hex notation)<br>VC, FE, TE (9 bit data in hex notation) | At offset 0<br>RF: A0h<br>VC, FE, TE: 00h |
| RF/VC/FE/TE (ADJ) | Offset values after RF (PI), VC, FE, TE signal offset adjustment<br>(Less than ORG value if offset correction is normal)<br>RF (8 bit data in hex notation)<br>VC, FE, TE (9 bit data in hex notation) | VC offset is not adjusted<br>(Measurement only)<br>Also, for SACD, the TE offset is not measured and adjusted |
| PI/TRVS PP (ORG/ADJ) | PI (ORG): PI value at disc type check (decimal data)<br>PI (ADJ): PI value after PI offset adjustment<br>(read value at microcomputer A/D) (decimal data)<br>TRVS PP (ORG): Traverse level before level correction (AGC)<br>(decimal data)<br>TRVS PP (ADJ): Traverse level after level correction (AGC)<br>(decimal data) | PI level conversion<br>Read value × 12.9mV<br><br>Traverse level conversion<br>Read value × 12.9mV<br><br>12.9mV=3.3V ÷ 256 (8 bit) |
| PIOR/CCR/TRCR | PIOR: Set value of PI offset coarse adjusting register<br>CCR: Set value of FE offset coarse adjusting register<br>TRCR: Set value of TE offset coarse adjusting register | Registers in RF amplifier |
| FOCUS/TRK GAIN | Auto gain adjusted values of focus and tracking servos<br>(8 bit data in hex notation) | |
| FBIAS/TRVSC/TRCR2/CFR | FBIAS: Focus bias set value (9 bit data in hex notation)<br>TRVSC: Traverse center value (9 bit data in hex notation)<br>TRCR2: Set value of E-F balance coarse adjusting register<br>CFR: Set value of traverse level adjusting register | TRCR2 adjusts the E-F gain balance and used for CD only<br>(Fixed to 06 for SACD)<br>TRCR2 and CFR are registers in RF amplifier |
| PSP AMPLITUDE | | SACD only |
| 1-LAST TRK SEEK (msec) | Average seek time from first track to last track of disc | |
| ERROR RATE | Error rate measurement<br>For CD: Average value/Maximum value of C1 and C2<br>For SACD: Average value/Maximum value of PO, PI1 and PI2 | For the CD, Measure for 7 sec at track No.5<br>For the SACD, calculation from 100-block data at track No.5 |

**Specified Value:**
Specified value used for OK/NG judgment when executing 92. SET CHECK→AUTO CHECK SP?

| Measured Items | | | Specified value |
|---|---|---|---|
| RF AVRG (ADJ) | | | 8Ch to ABh |
| VC AVRG (ADJ) | | | 1F7h to09h |
| FE AVRG (ADJ) | (1) CD | | 1EEh to 12h |
| | (2) SACD | | 1F1h to 0Fh |
| TE AVRG (ADJ) | | | 1E2h to 1Eh |
| TRVS PP (ADJ) | | | 45h to 73h |
| FCS GAIN | | | 10h to 60h |
| TRK GAIN | | | 10h to 60h |
| ERROR RATE | (1) CD | C1 | 20 or less |
| | | C2 | 0 |
| | (2) SACD | PI1 NUM | 100 or less |
| | | PI1 FRAME | 5 or less |
| PSP AMPLITUDE (SACD only) | | | 1000 to 4000 |
| 1-LAST TRK SEK | | | 3500 or less |

**Note:** The specified values attached with "h" are hexadecimal numbers, and others are decimal numbers.
RF, VC, FE, and TE measured values are hexadecimal data with positive and negative signs. When comparing the measured value with the specified value, refer to the following.



### 4-4. SACD (DL) DISC OPERATION CHECK

(• Perform as necessary)

This checking performs the focus jump using a DL disc, which is a dual-layer HD disc, to verify the stability of the set.

A set of layer 0 most-outside track access (only once)⟶one-second trace⟶focus jump (layer 0⟶1)⟶one-second trace⟶focus jump (layer 1⟶0) are repeated 5 times.

**Checking Method:**

1. After setting the test mode, rotate the [⏮ AMS ⏭] dial to select "91 FJUMP CHECK" and press the [⏮AMS⏭] dial to enter.
2. The tray will open automatically, and then set the DL disc.
3. With "DISC IN&JOG ON" displayed, press the [⏮AMS⏭] dial.
4. The tray will be loaded in automatically, and then the test will start.
5. During the test, "NOW TEST>>>>" is displayed.
6. Upon successful completion of the check, "OK!" will be displayed and the tray will open automatically. (In case of NG, "NG! ERR FJ-UP" or "NG! ERR FJ-DWN" is displayed)
7. Take the DL disc out and press the [OPEN/CLOSE ⏏] button, and the test mode selection display will be back

### 4-5. SHIPPING MODE

The repaired set must be initialized, and for this purpose the set should be set to the shipping mode.

**Setting Method:**

1. After setting the test mode, rotate the [⏮ AMS ⏭] dial to select "8D SETUP MODE" and press the [⏮ AMS ⏭] dial to enter.
2. "INITIAL OK" is displayed and the test mode selection display will be back immediately.

"8D 000000000 00" will be displayed, and if the scroll starts in the left direction, the set initialization has completed

3. Press the [POWER] button to turn the power off.

**The following setups are established in the shipping mode**

1. Initialization of EEPROM (IC903)
   - PLAY MODE CONTINUE
   - LAYER SELECT SACD
   - M/2CH SELECT MULTI
   - 2ch SPK MODE 2ch DIRECT
   - Mch SPK MODE Mch DIRECT
   - Resetting the cumulative light emission time of the laser

**Note**: Even if the shipment mode setting mentioned above is made, the disc check threshold value attained in the 3. SET CHECK is not cleared.

2. The optical pick-up moves to the home position (most-inside track)

**Error List**

| Display | Description |
|---|---|
| Toc Error * | Error during the time from auto adjustment to TOC reading, Different type of disc (Such as a DVD disc), Disc is dirty |
| Toc Error **** | Illegal SACD (Such as a pirated version) |

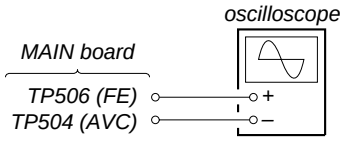
### 4-6. WAVEFORMS CHECK

**BU Electrical Adjustment Mode**

The BU electrical adjustment mode is used to check the S curve waveform, traverse waveform, RF waveform, and CLV jitter. After a disc is placed on the tray, each time the [⏮ AMS ⏭] dial is pressed, the check mode is switched in order for S curve waveform⟶ traverse waveform⟶RF waveform⟶CLV jitter (for the CD).

**S Curve Check**

**Connection:**




**Checking Method:**

1. After setting the test mode, rotate the [⏮ AMS ⏭] dial to select "9C. BU DENCHO" and press the [OPEN/CLOSE ⏏] button. Place the test disc (PATD-012 or YEDS-18 or SATD-S5 or SATD-S4) on the tray and close the tray, then press the [⏮ AMS ⏭] dial.
2. At the completion of disc type check, "CD DETECT" will be displayed (for PATD-012 or YEDS-18).

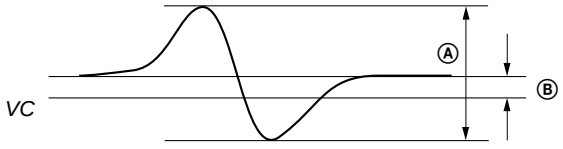
**Note:** For the SATD-S5 or SATD-S4, "SL DETECT" is displayed.

3. Press again the [⏮AMS⏭] dial, and the S curve waveform check mode will become active and "S-CURVE MODE" will be displayed.
4. Connect an oscilloscope to the TP506 (FE) and TP504 (AVC) on the MAIN board.
5. Check that the level Ⓐ and Ⓑ of waveform on the oscilloscope satisfy the specification.

**Specified Value:**

| Disc | Ⓐ | Ⓑ |
|---|---|---|
| SATD-S5 or SATD-S4 | 0.7 to 1.7 Vp-p | –0.1 to +0.1V |
| PATD-012 or YEDS-18 | | |

*S curve waveform*

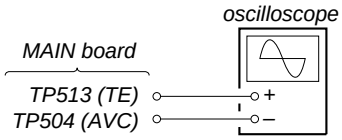



**Note:** For easier observation of this waveform, extend the sweep time and raise the brightness.

**Checking and Connecting Location : See page 19.**

### Traverse Check

**Connection:**



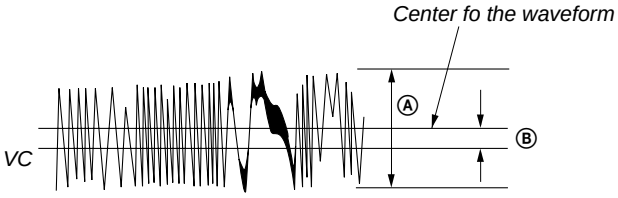

**Checking Method:**

1. Under the condition of S curve waveform check mode in step 5, press the [⏮ AMS ⏭] dial.
2. After "WAIT" is displayed, the traverse waveform check mode will become active and "TRV MODE ON" will be displayed.
3. Connect an oscilloscope to the TP513 (TE) and TP504 (AVC) on the MAIN board.
4. Check that the level Ⓐ and Ⓑ of waveform on the oscilloscope satisfy the specification.

**Specified Value:**

| Disc | Ⓐ | Ⓑ |
|---|---|---|
| SATD-S5 or SATD-S4 | 0.9 to 1.4 Vp-p | –0.1 to +0.1V |
| PATD-012 or YEDS-18 | | |

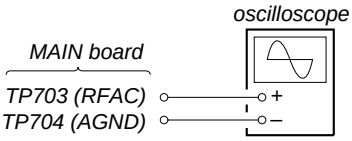
*Traverse waveform*




**Checking and Connecting Location : See page 19.**

### RF Level Check

**Connection:**




**Checking Method:**

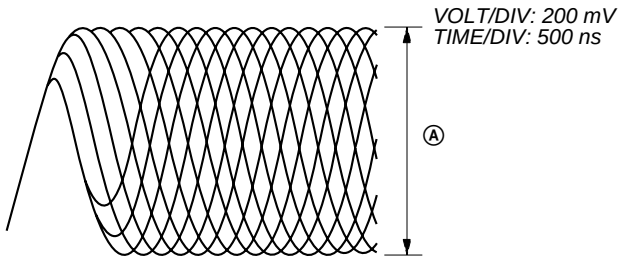
1. Under the condition of traverse waveform check mode in step 4, press the [⏮ AMS ⏭] dial.
2. Connect an oscilloscope to the TP703 (RFAC) and TP704 (AGND) on the MAIN board.
3. After "WAIT" is displayed, the RF waveform check mode will become active and "PLAY 5th TRACK" (for the SACD, "RF MODE ON") will be displayed, and the 5th music on the disc will be played.
4. Check that the RF waveform is clear and the level satisfies the specification.
5. Press the [⏮ AMS ⏭] dial (for the SACD, "RF JITTER (5th)" will be displayed, and further press the AMS dial), and "OUTSIDE TRACK" will be displayed and the outward track of the disc will be played.
6. Check that the RF waveform is clear and the level satisfies the specification.
7. Press the [⏮ AMS ⏭] dial, and "INSIDE TRACK" will be displayed and the inward track of the disc will be played.
8. Check that the RF waveform is clear and the level satisfies the specification.
9. After checking, press the [⏮ AMS ⏭] dial, and the test is over when "BU MEASURE" is displayed.
10. Press the [OPEN/CLOSE ⏏] button to open the tray, and remove the test disc.
11. Using each type of disc, repeat from step 1 of S curve waveform check up to step 10 of RF level check.
12. When the check is over, press the [POWER] button to turn the power off.

**Note:** Take care not to leave the test disc in the set.

**Specified Value:**

| Disc | Ⓐ |
|---|---|
| SATD-S5 or SATD-S4 | 0.9 to 1.4 Vp-p |
| PATD-012 or YEDS-18 | |

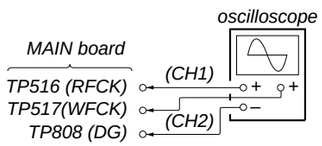
*RF signal waveform*




**Note:** Clear RF waveform refers to the waveform where ◊ shapes should be distinctively observed in the center.

**Checking and Connecting Location : See page 19.**

**CLV Jitter Check (CD only)**
**Connection:**

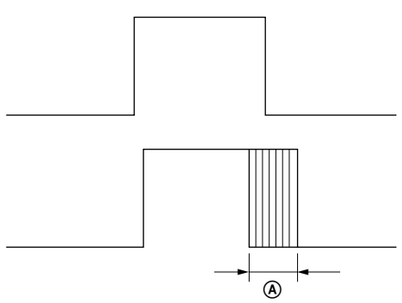



**Checking Method:**
Under the condition of RF level check mode in step 3, connect the oscilloscope to the TP516 (RFCK) (CH1), TP517 (WFCK) (CH2), and the TP808 (DG) (GND) on the MAIN board to check that the value Ⓐ of the waveform satisfies the specification.
**Note:** Take care not to leave the test disc in the set.

**Specified Value:**

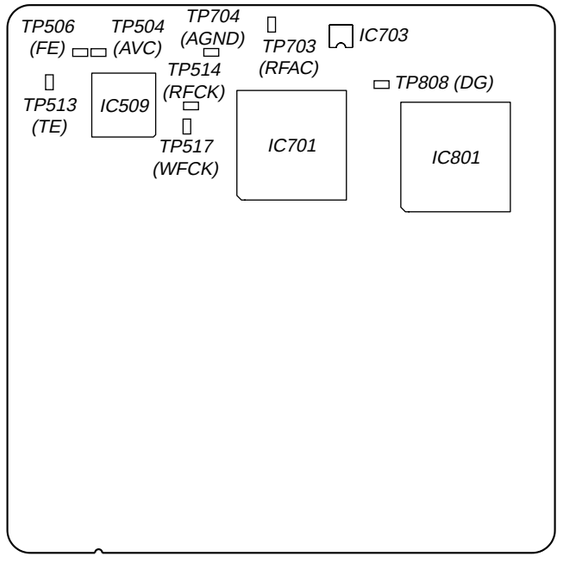
| Disc | Ⓐ |
|---|---|
| PATD-012 or YEDS-18 | 35 µsec or less |

*CLV jitter waveform*



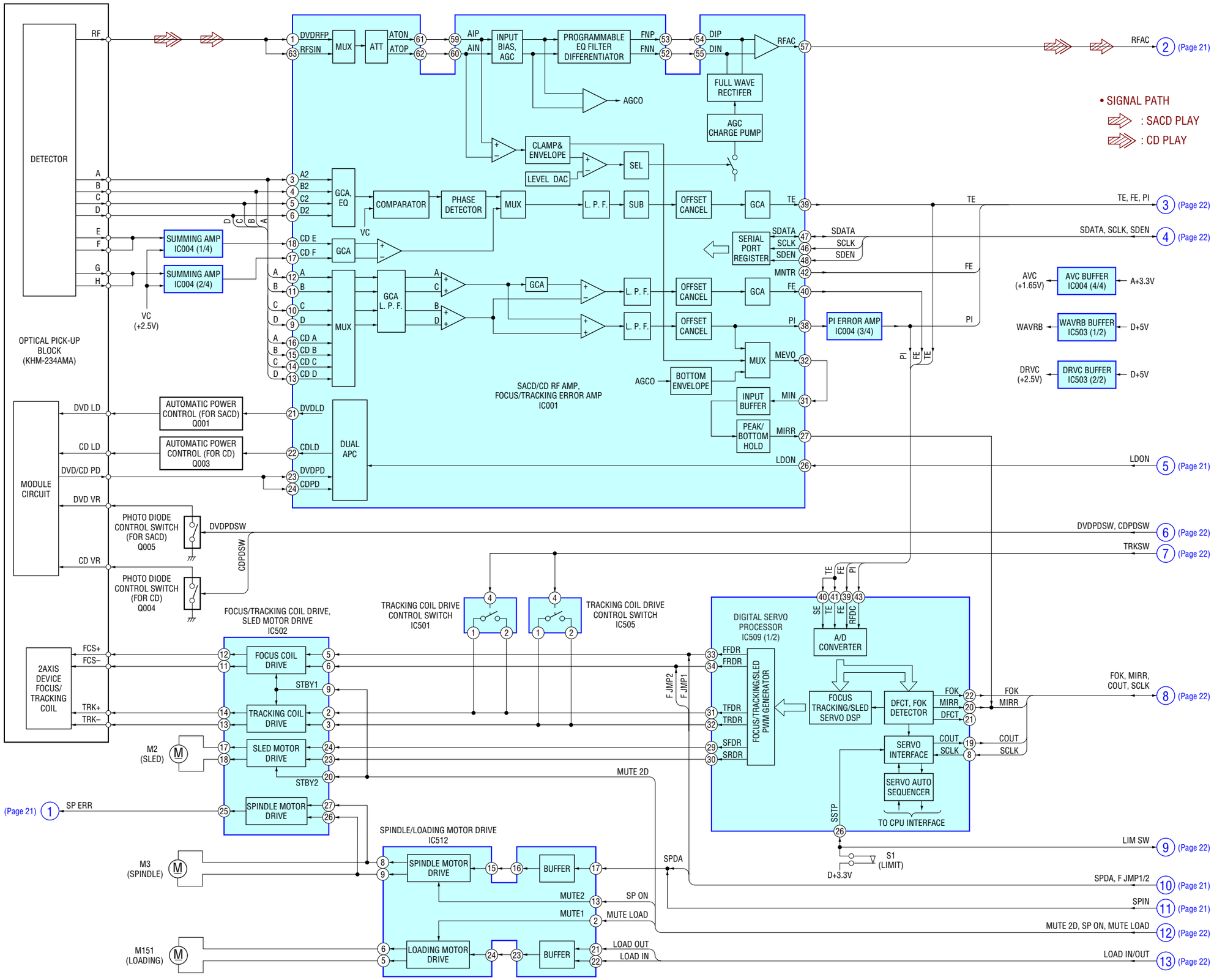

**Checking and Connecting Location:**

**– MAIN Board (Component Side) –**

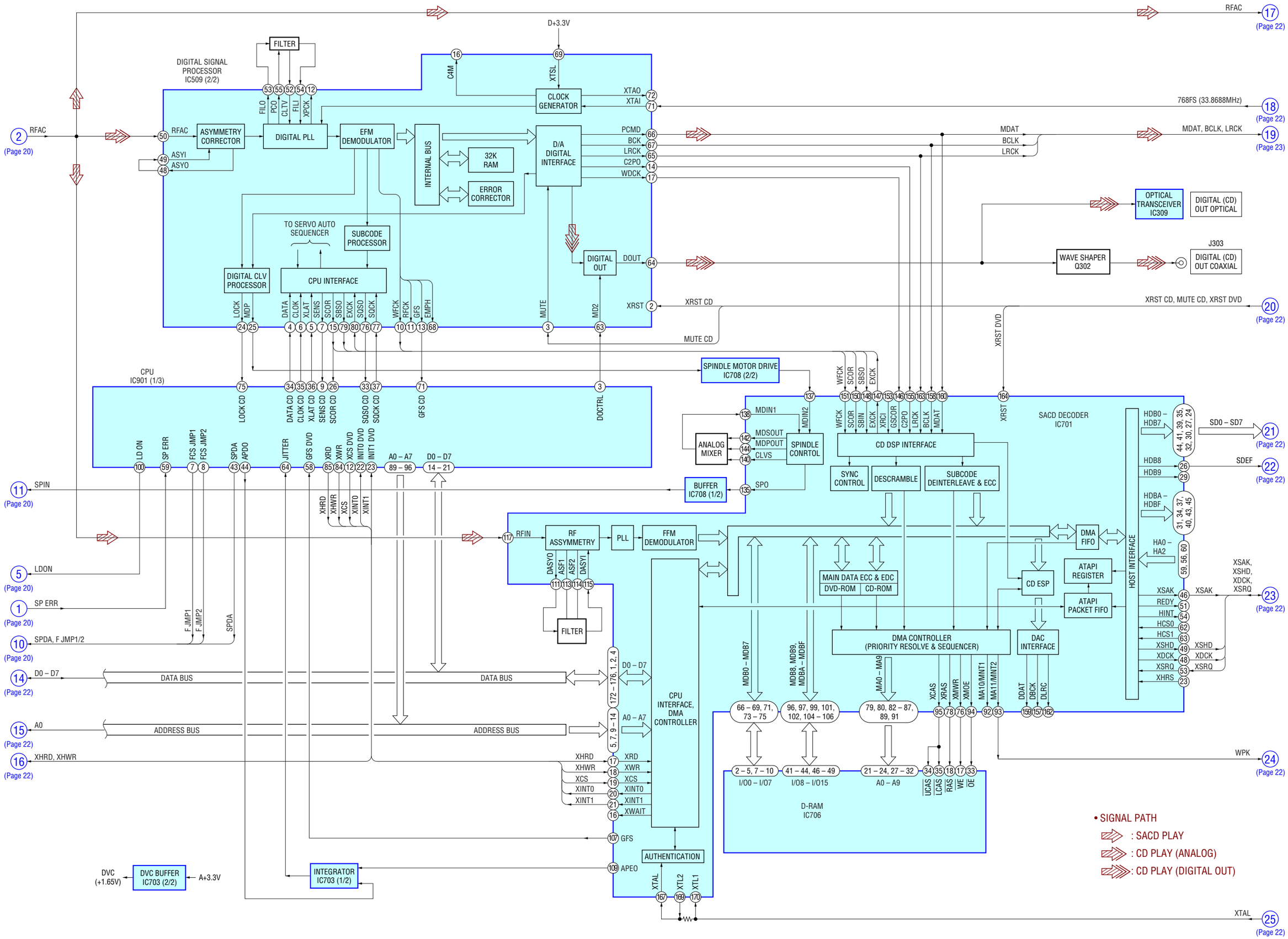


# SECTION 5
# DIAGRAMS

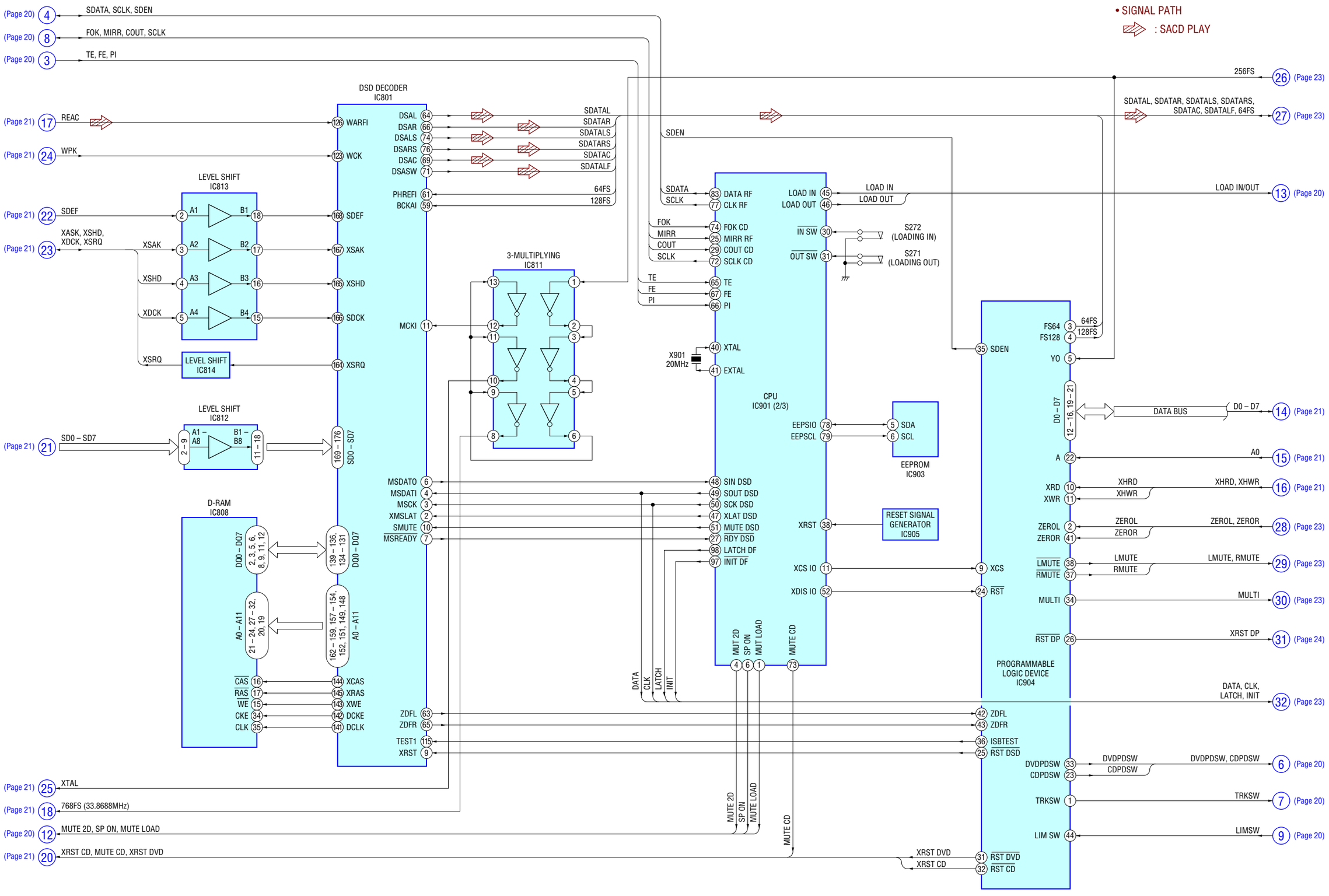
## 5-1. BLOCK DIAGRAM – RF/SERVO Section –



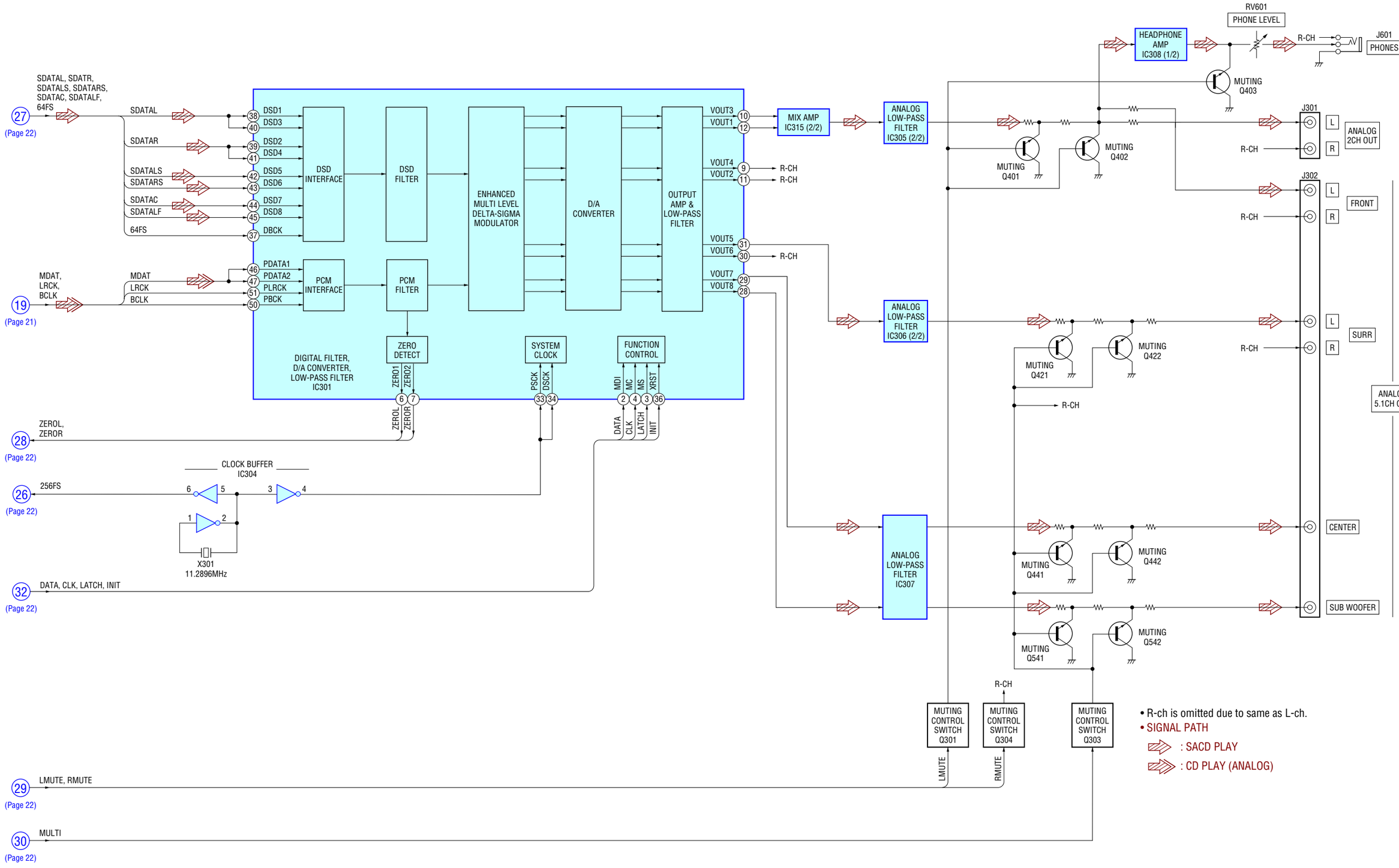
## 5-2. BLOCK DIAGRAM – SERVO Section –



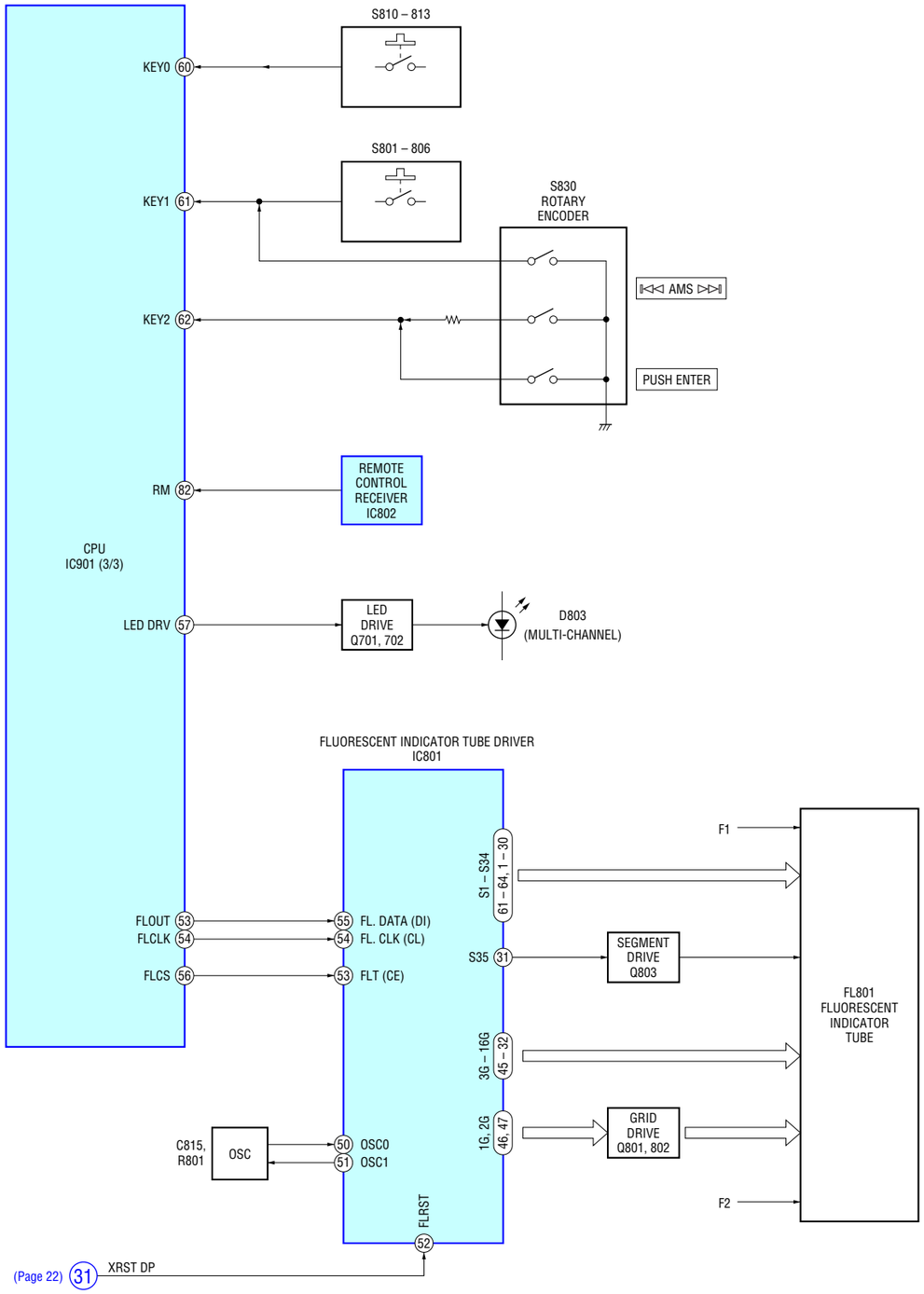
## 5-3. BLOCK DIAGRAM – MAIN Section –

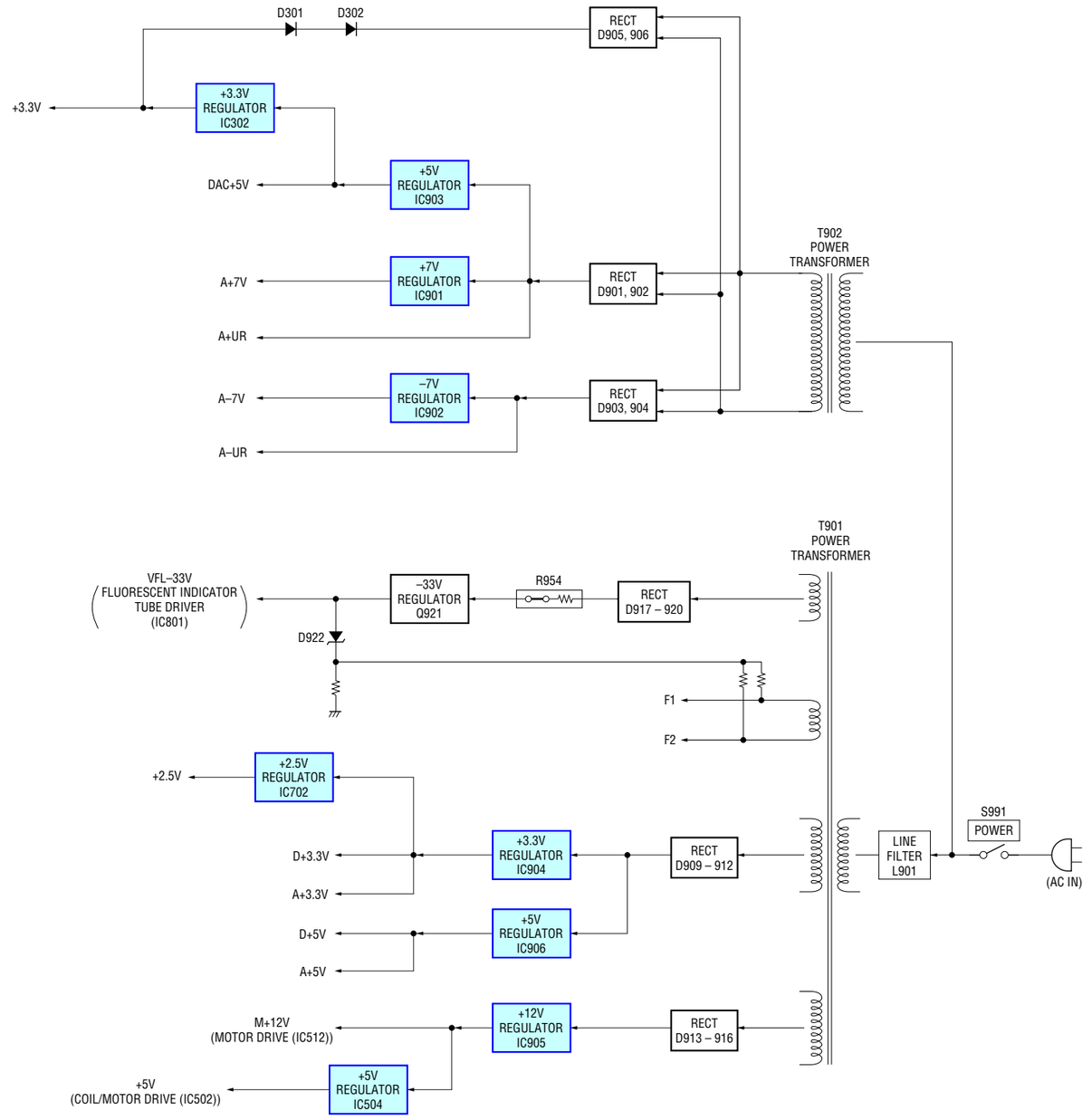


## 5-4. BLOCK DIAGRAM – AUDIO Section –



## 5-5. BLOCK DIAGRAM – DISPLAY/KEY CONTROL/POWER SUPPLY Section –



## 5-6. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

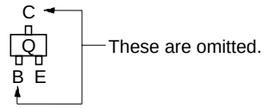
**Note on Printed Wiring Board:**

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

| Caution: | |
|---|---|
| Pattern face side: (Conductor Side) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: (Component Side) | Parts on the parts face side seen from the parts face are indicated. |

- Main board is multi-layer printed board.
  However, the patterns of intermediate-layer have not been included in diagram.
- Indication of transistor




These are omitted.

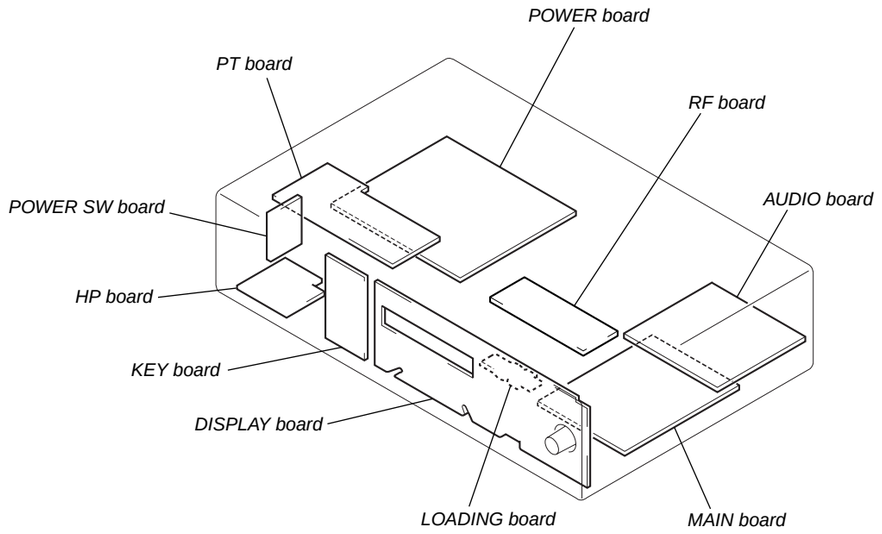
**Note on Schematic Diagram:**

- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : fusible resistor.
- : panel designation.

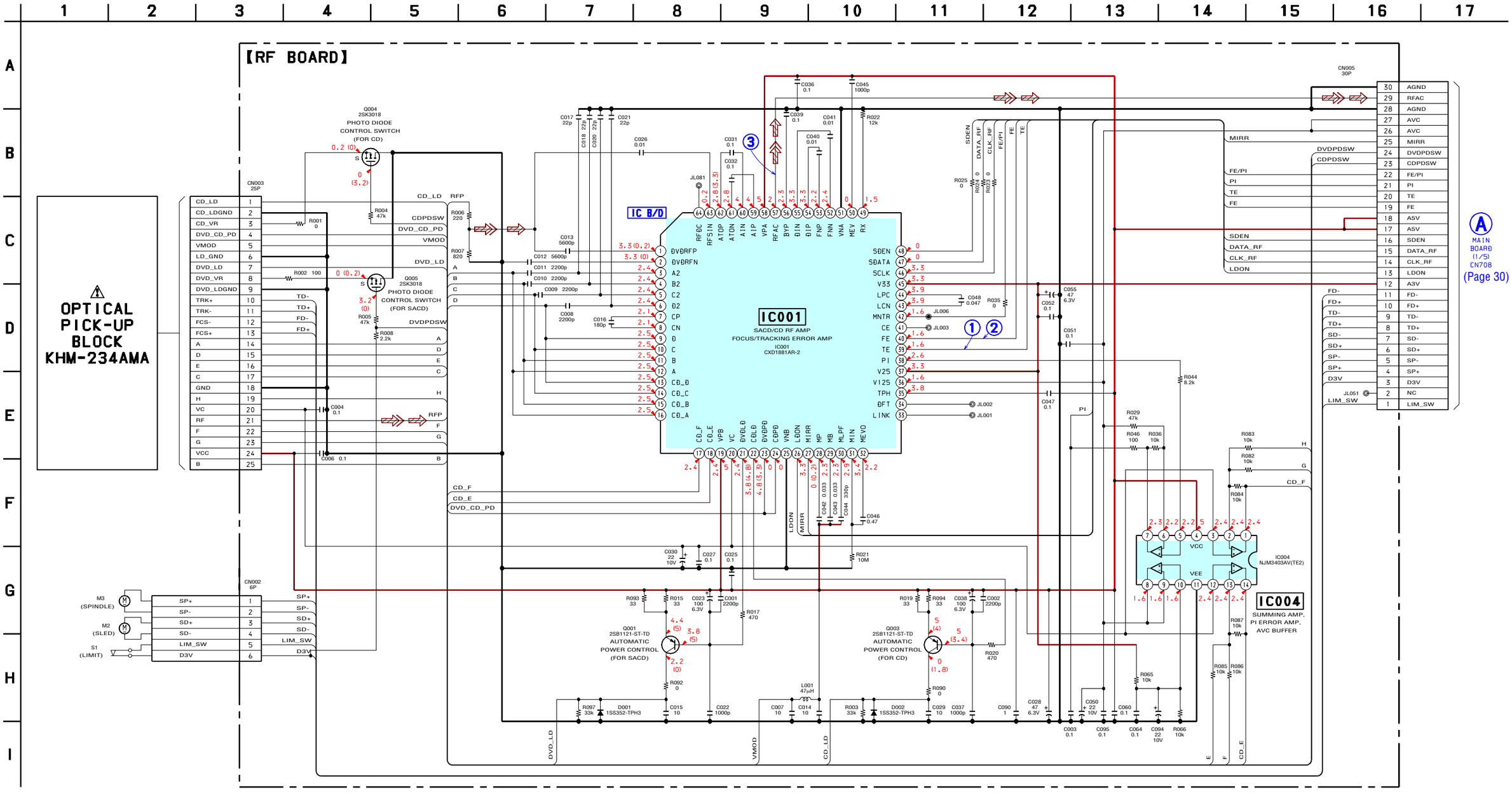
**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : SACD PLAY
  ( ) : CD PLAY
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : SACD PLAY
  : CD PLAY (ANALOG)
  : CD PLAY (DIGITAL OUT)

- **Circuit Boards Location**



## 5-7. SCHEMATIC DIAGRAM – RF Board – • See page 42 for Waveforms. • See page 45 for IC Block Diagram.

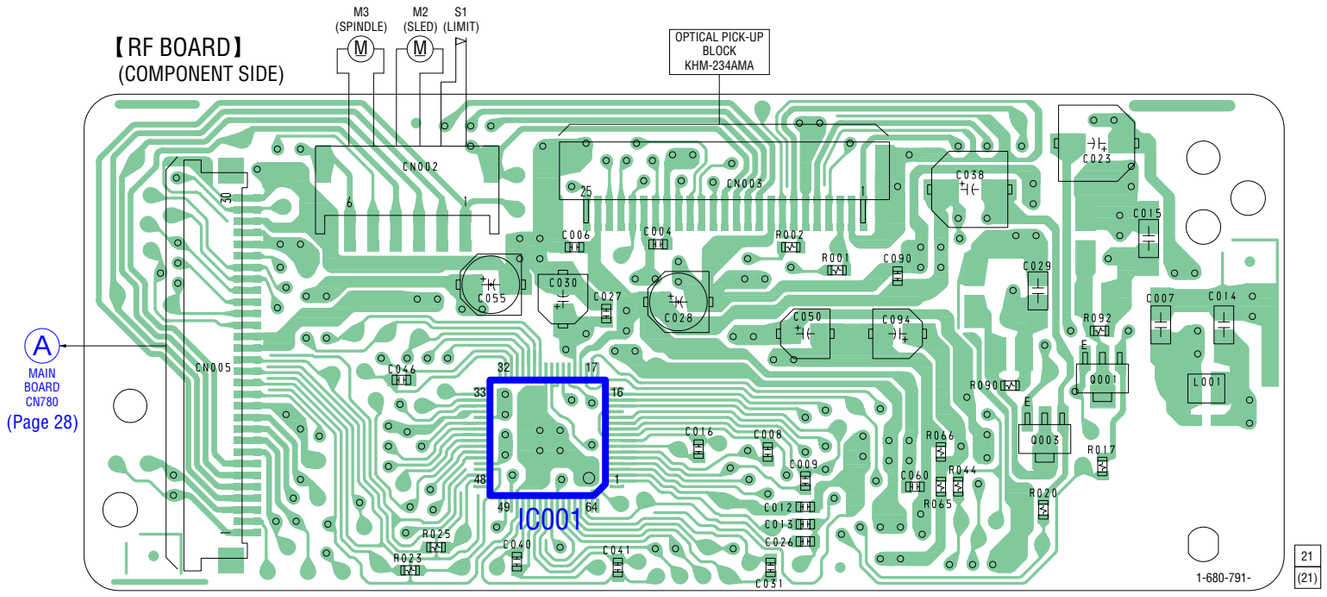



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

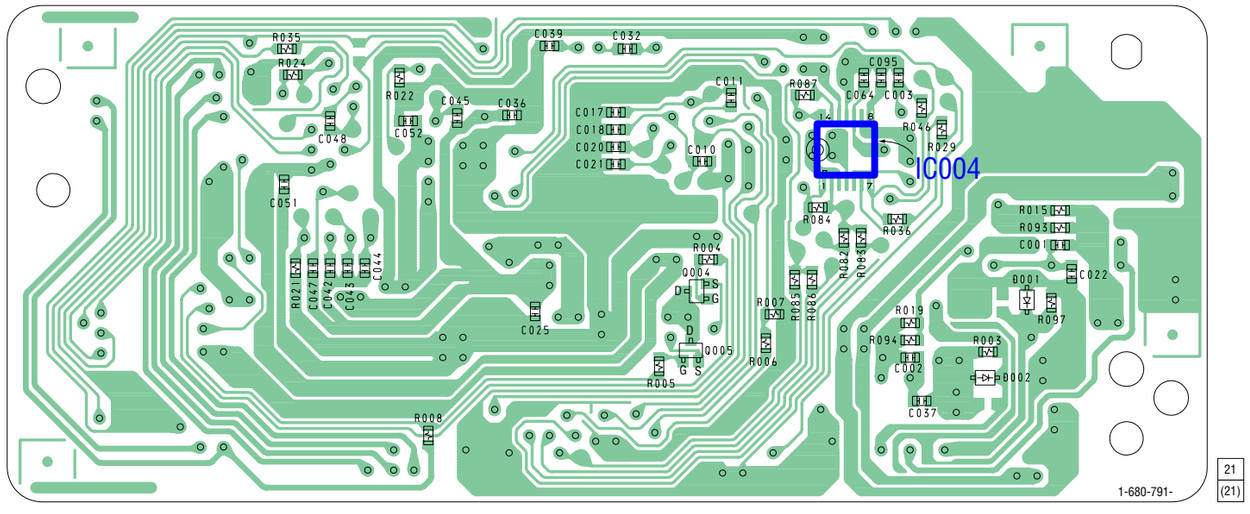
## 5-8. PRINTED WIRING BOARDS – RF/LOADING Boards –

• See page 25 for Circuit Boards Location.

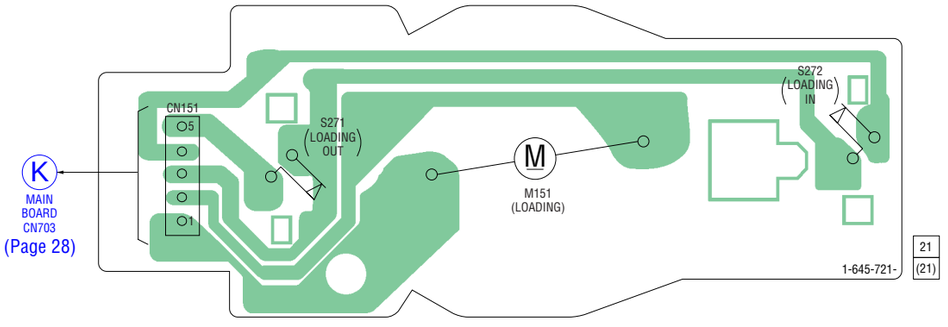
【RF BOARD】
(COMPONENT SIDE)




【RF BOARD】(CONDUCTOR SIDE)




【LOADING BOARD】




- **Semiconductor Location**

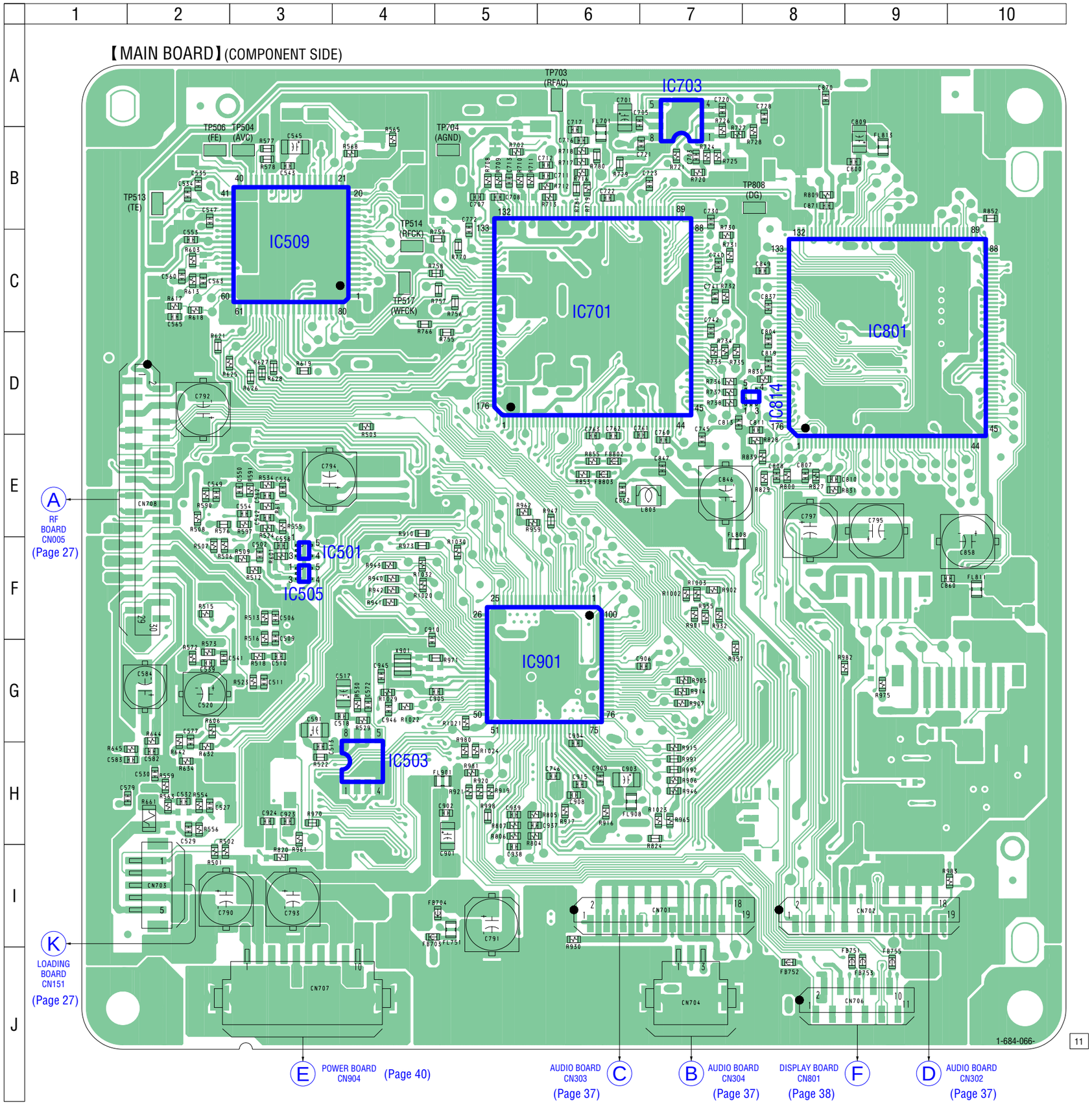
| Ref. No. | Location |
|---|---|
| D001 | D-4 |
| D002 | D-4 |
| IC001 | B-3 |
| IC004 | D-4 |
| Q001 | B-4 |
| Q003 | B-4 |
| Q004 | D-3 |
| Q005 | D-3 |

## 5-9. PRINTED WIRING BOARD – MAIN Board (Component Side) –

• See page 25 for Circuit Boards Location.

• **Semiconductor Location**

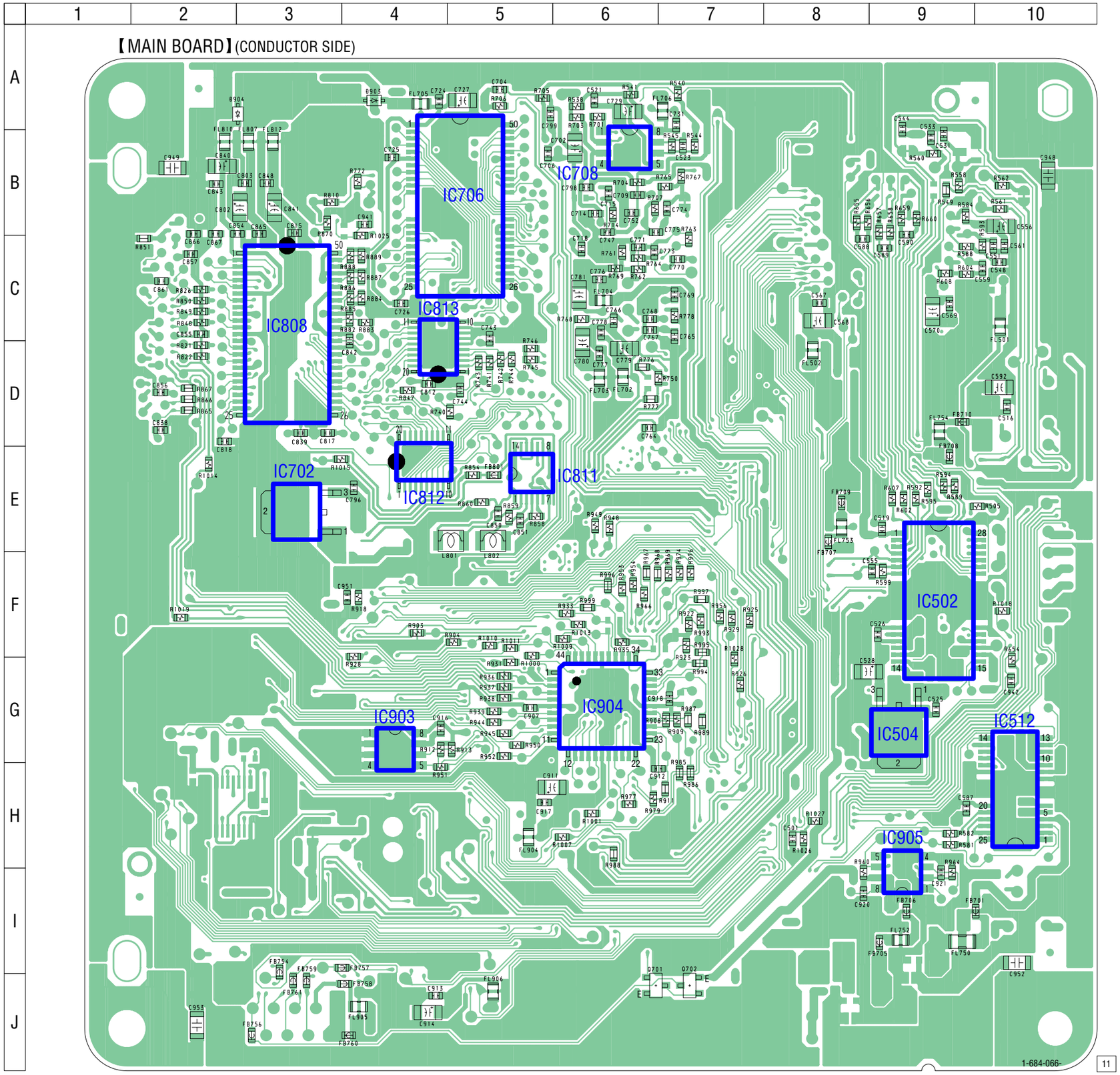
| Ref. No. | Location |
|---|---|
| IC501 | F-3 |
| IC503 | H-4 |
| IC505 | F-3 |
| IC509 | C-3 |
| IC701 | C-6 |
| IC703 | A-7 |
| IC801 | D-9 |
| IC814 | D-8 |
| IC901 | G-6 |



## 5-10. PRINTED WIRING BOARD – MAIN Board (Conductor Side) –

• See page 25 for Circuit Boards Location.

【MAIN BOARD】(CONDUCTOR SIDE)

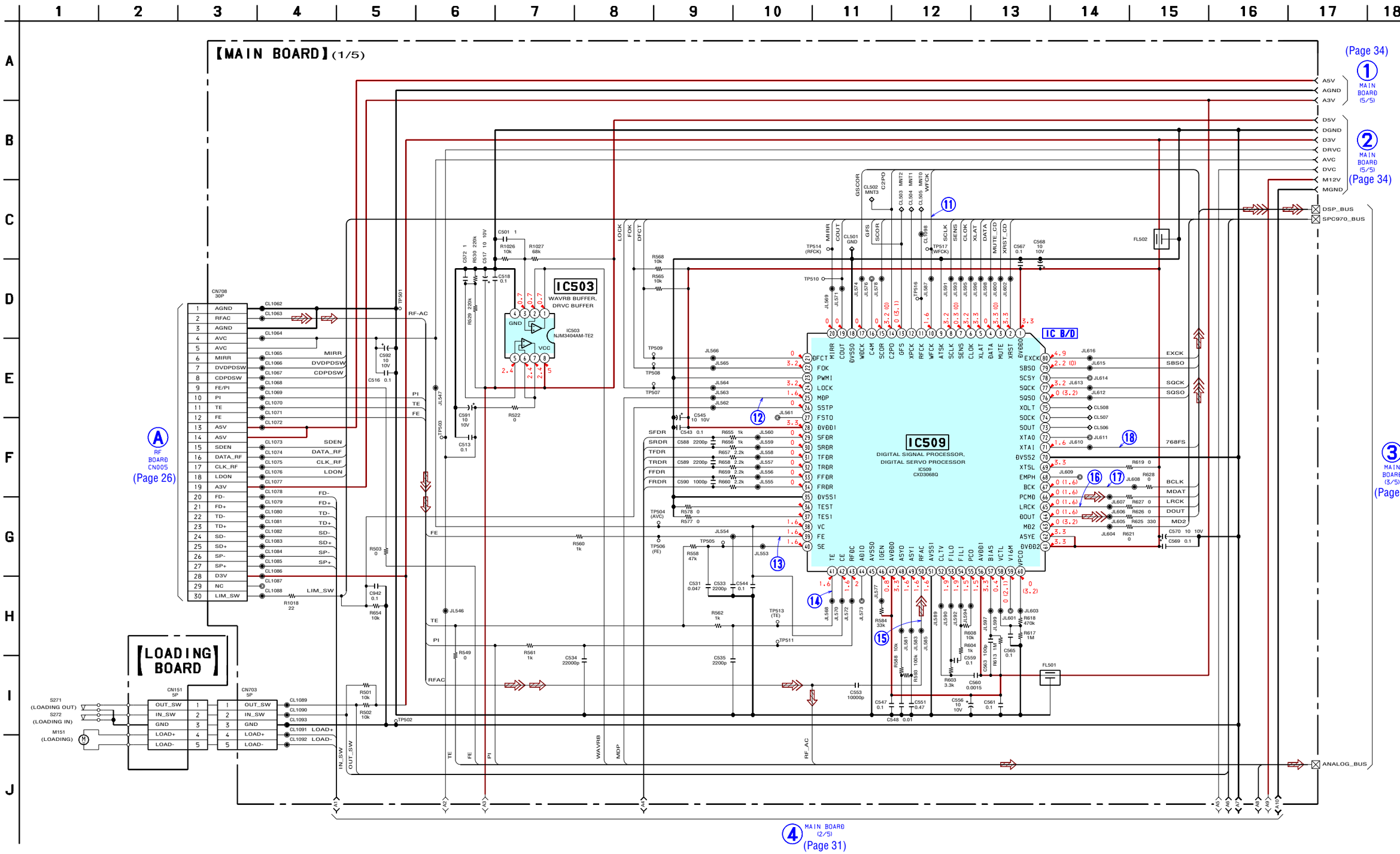



- **Semiconductor Location**

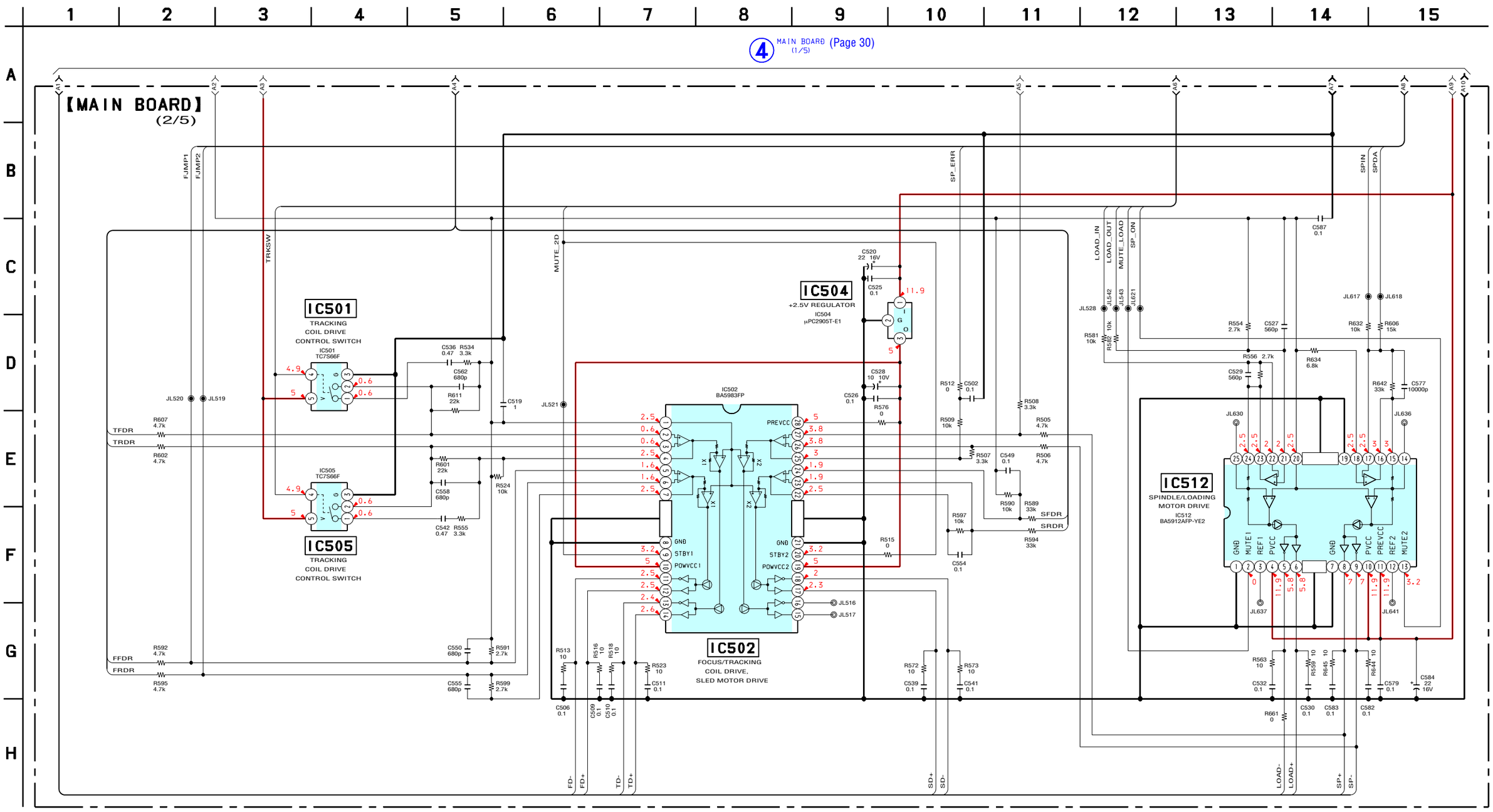
| Ref. No. | Location |
|---|---|
| D903 | A-4 |
| D904 | A-3 |
| IC502 | F-9 |
| IC504 | G-9 |
| IC512 | H-10 |
| IC702 | E-3 |
| IC706 | B-5 |
| IC708 | B-6 |
| IC808 | C-3 |
| IC811 | E-5 |
| IC812 | E-4 |
| IC813 | D-4 |
| IC903 | G-4 |
| IC904 | G-6 |
| IC905 | H-9 |
| Q701 | J-6 |
| Q702 | J-7 |

## 5-11. SCHEMATIC DIAGRAM – MAIN (1/5)/LOADING Boards –

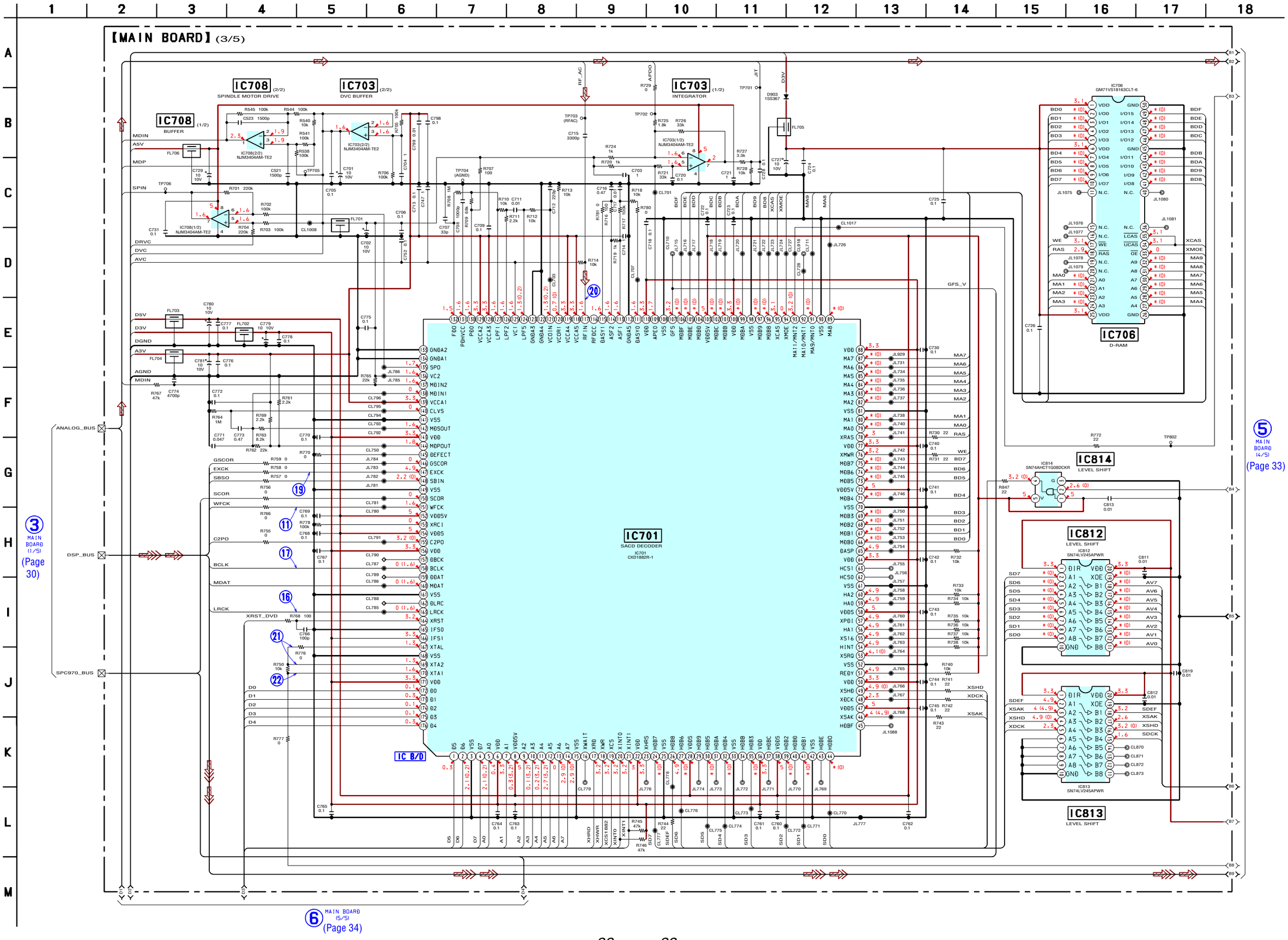
• See page 42 for Waveforms. • See page 45 for IC Block Diagram.



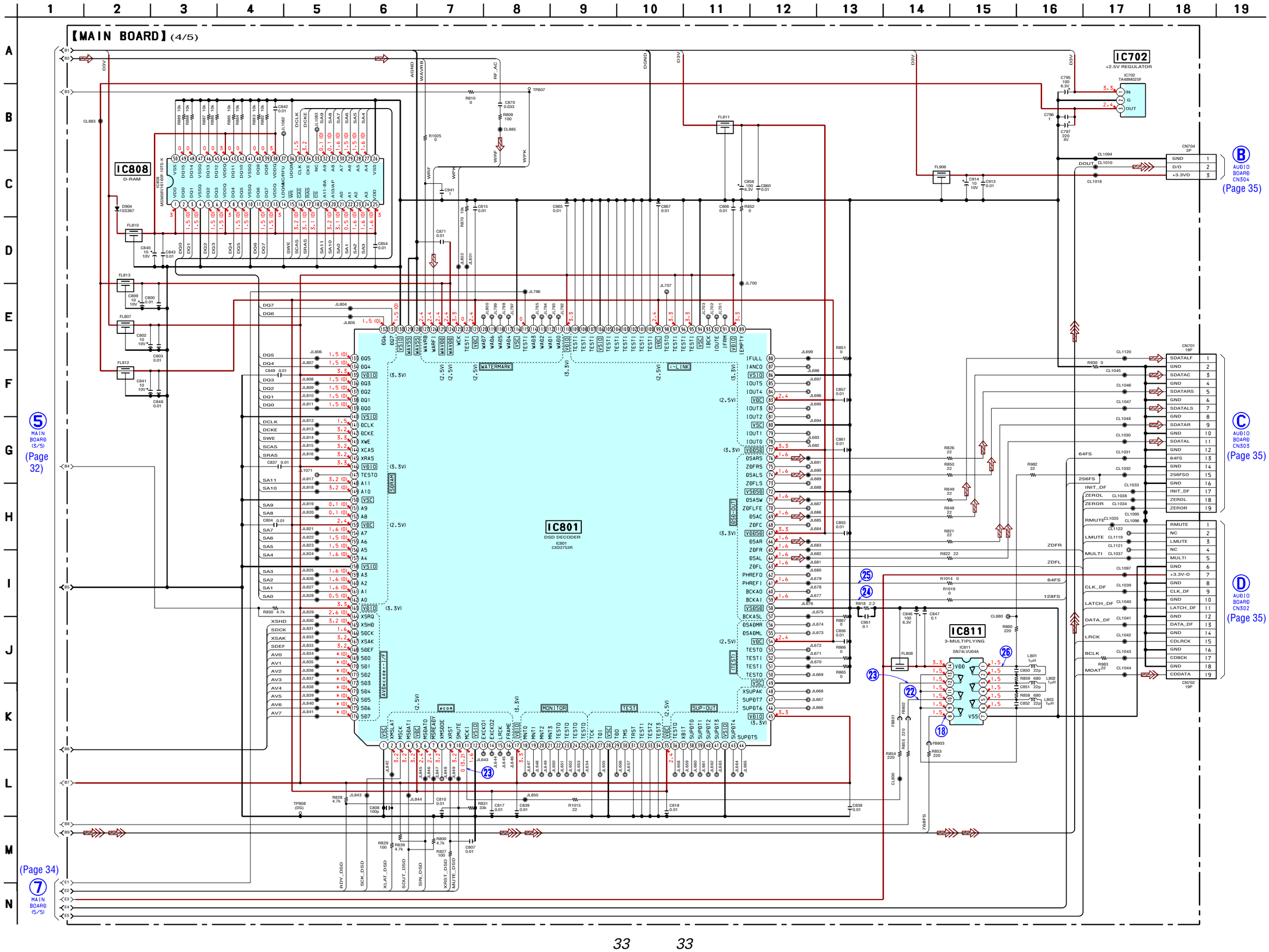
## 5-12. SCHEMATIC DIAGRAM – MAIN Board (2/5) –



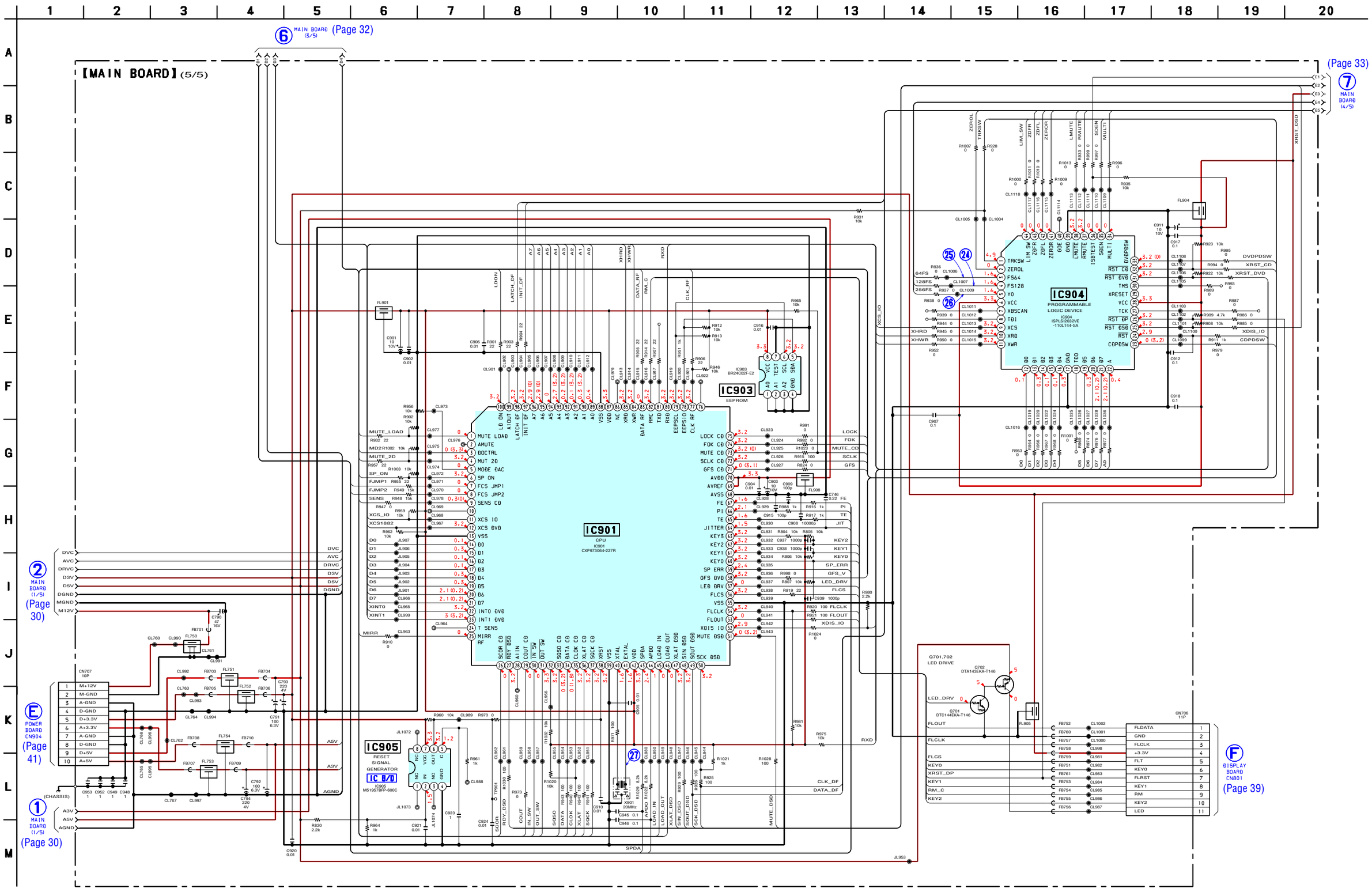
## 5-13. SCHEMATIC DIAGRAM – MAIN Board (3/5) – • See page 42 for Waveforms. • See page 45 for IC Block Diagram.



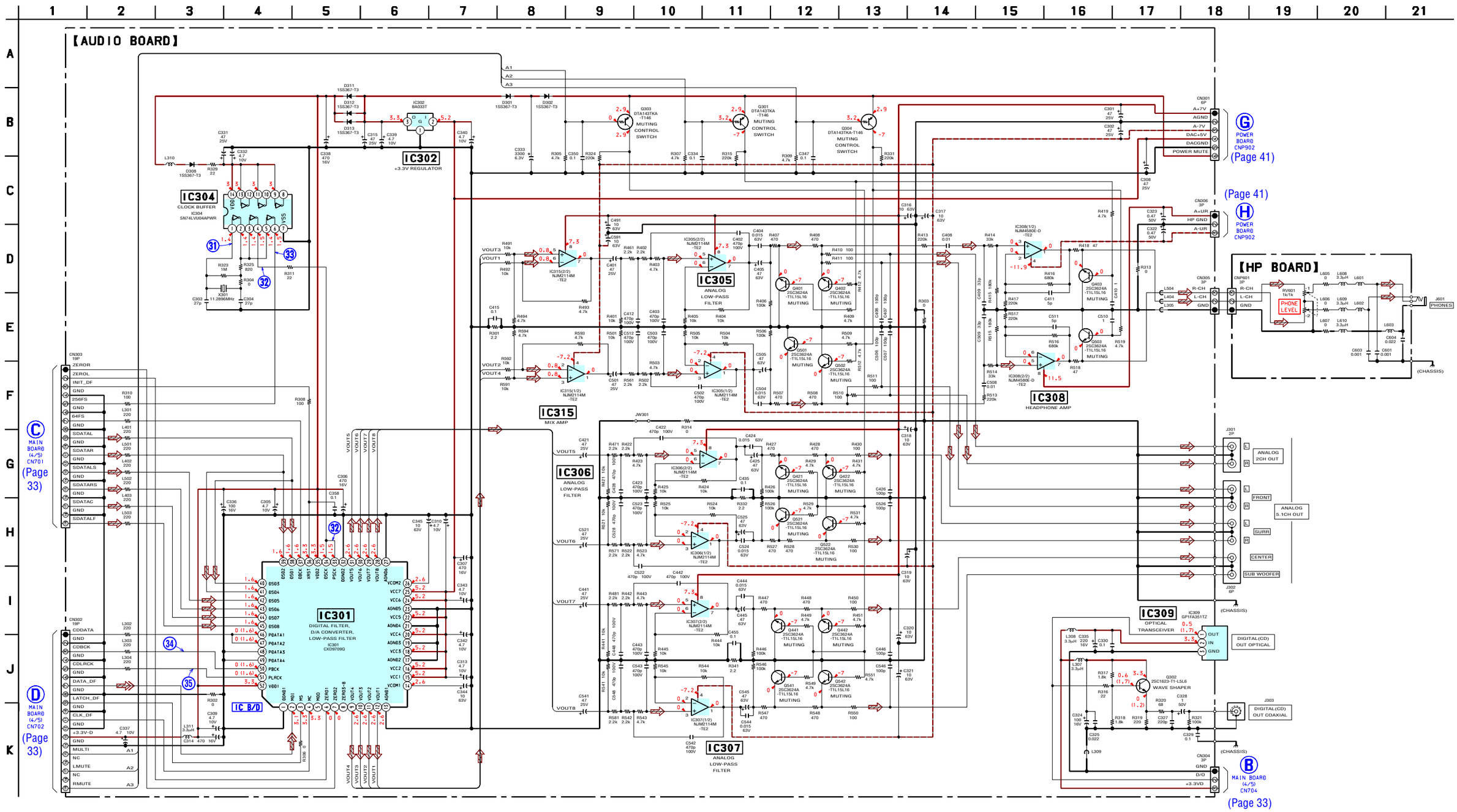
## 5-14. SCHEMATIC DIAGRAM – MAIN Board (4/5) – • See page 42 for Waveforms.



## 5-15. SCHEMATIC DIAGRAM – MAIN Board (5/5) – • See page 42 for Waveforms. • See page 45 for IC Block Diagram.

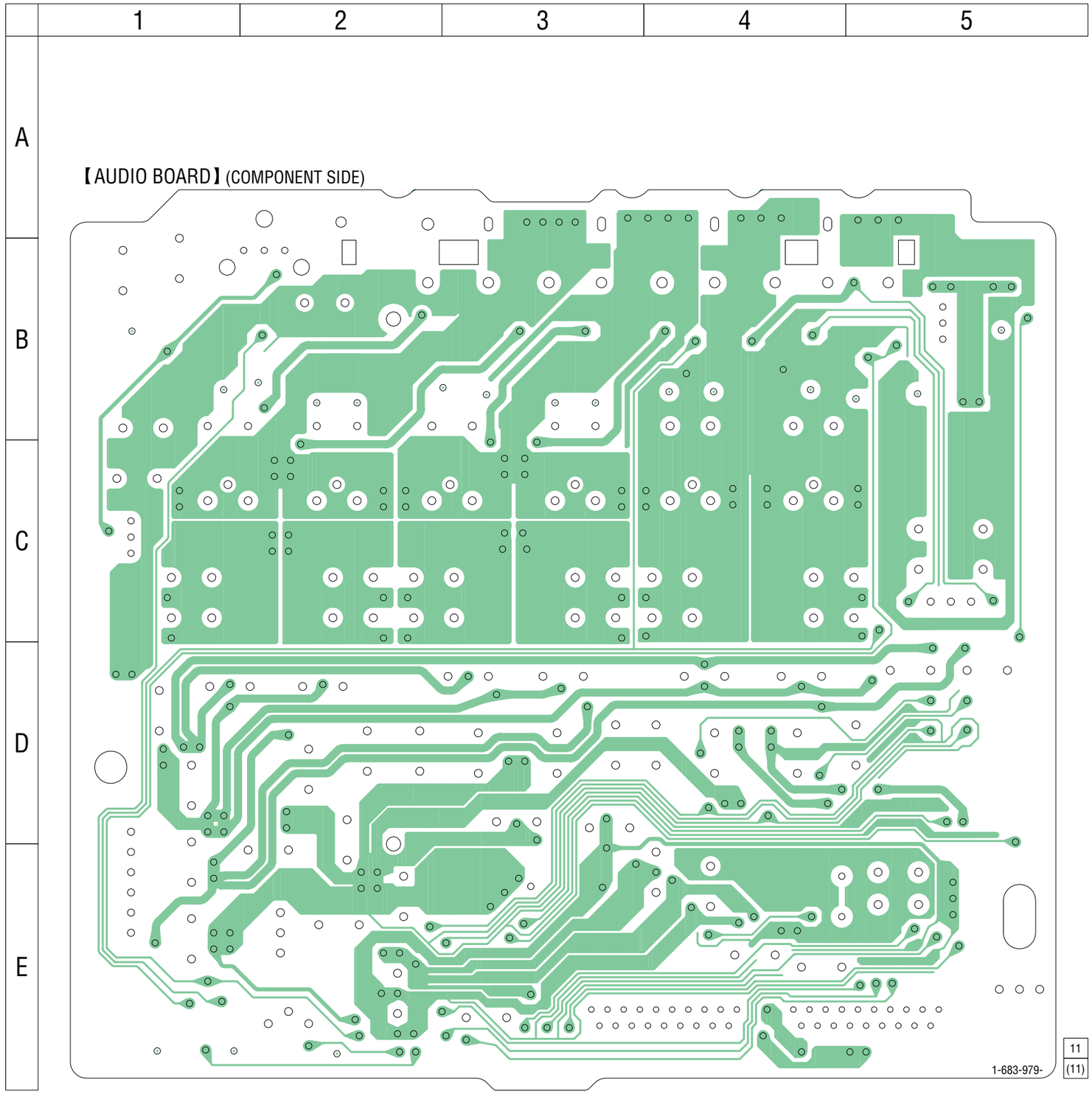


## 5-16. SCHEMATIC DIAGRAM – AUDIO/HP Boards – • See page 42 for Waveforms. • See page 45 for IC Block Diagram.

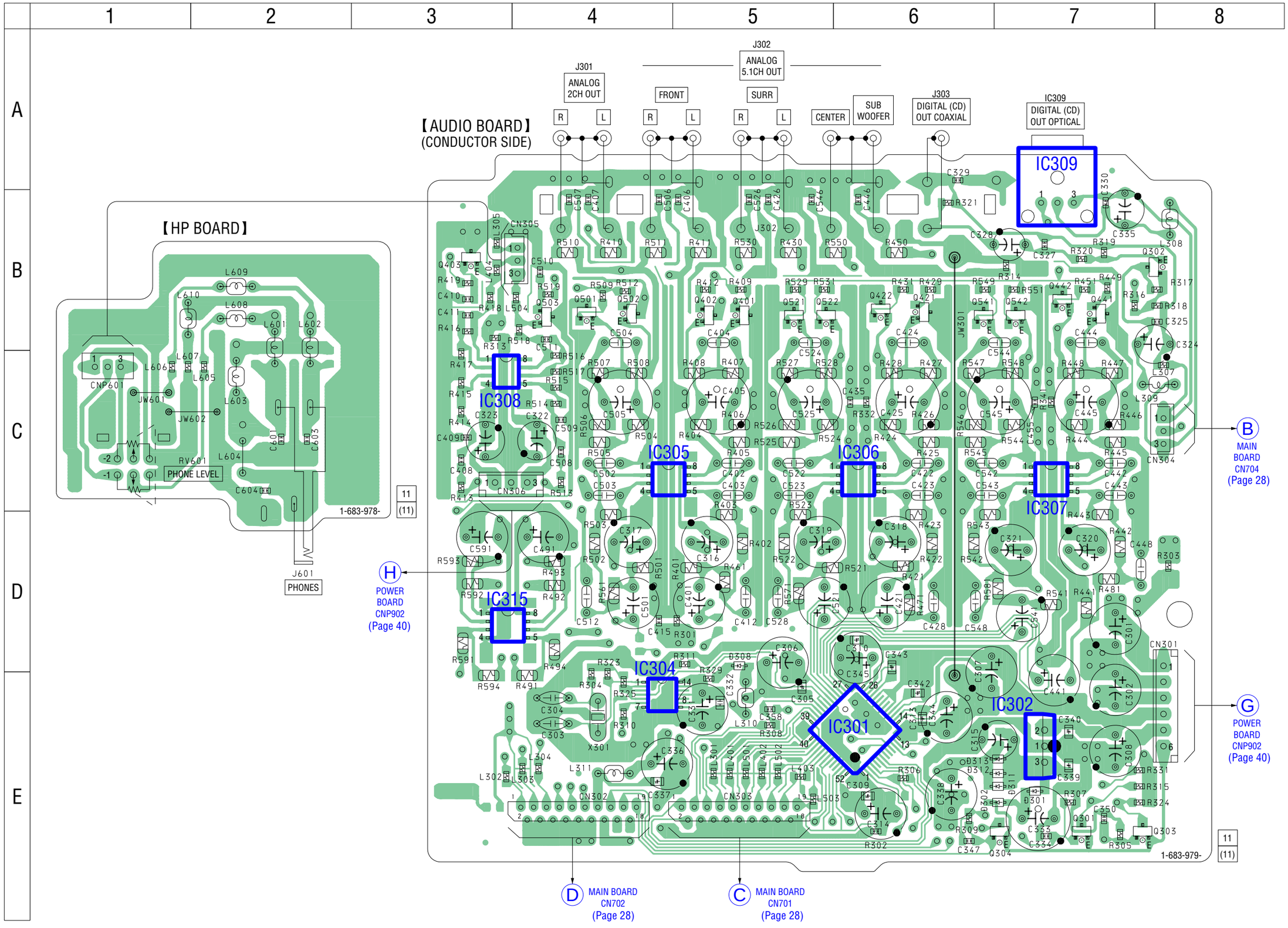


## 5-17. PRINTED WIRING BOARD – AUDIO Board (Component Side) –

• See page 25 for Circuit Boards Location.



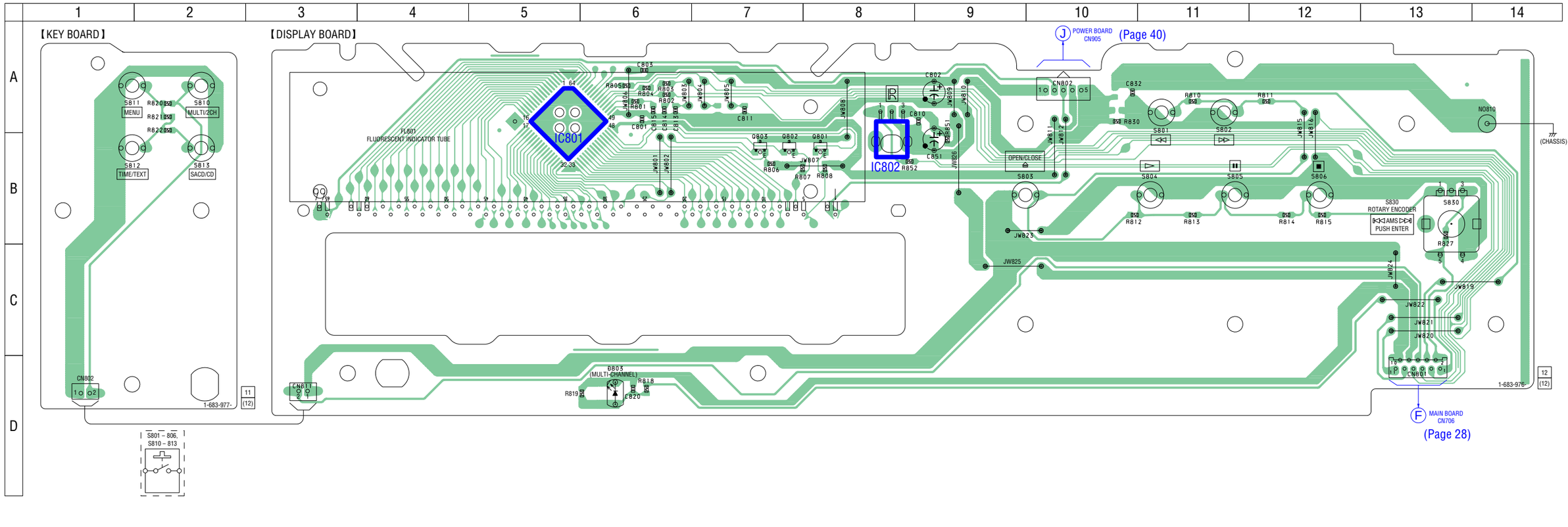
## 5-18. PRINTED WIRING BOARDS – AUDIO (Conductor Side)/HP Boards – • See page 25 for Circuit Boards Location.




- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D301 | E-7 |
| D302 | E-7 |
| D308 | D-5 |
| D311 | E-7 |
| D312 | E-7 |
| D313 | E-7 |
| IC301 | E-6 |
| IC302 | E-7 |
| IC304 | E-4 |
| IC305 | C-4 |
| IC306 | C-6 |
| IC307 | C-7 |
| IC308 | C-3 |
| IC309 | A-7 |
| IC315 | D-3 |
| Q301 | E-7 |
| Q302 | B-7 |
| Q303 | E-7 |
| Q304 | E-7 |
| Q401 | B-5 |
| Q402 | B-5 |
| Q403 | B-3 |
| Q421 | B-6 |
| Q422 | B-6 |
| Q441 | B-7 |
| Q442 | B-7 |
| Q501 | B-4 |
| Q502 | B-4 |
| Q503 | B-4 |
| Q521 | B-5 |
| Q522 | B-5 |
| Q541 | B-6 |
| Q542 | B-7 |

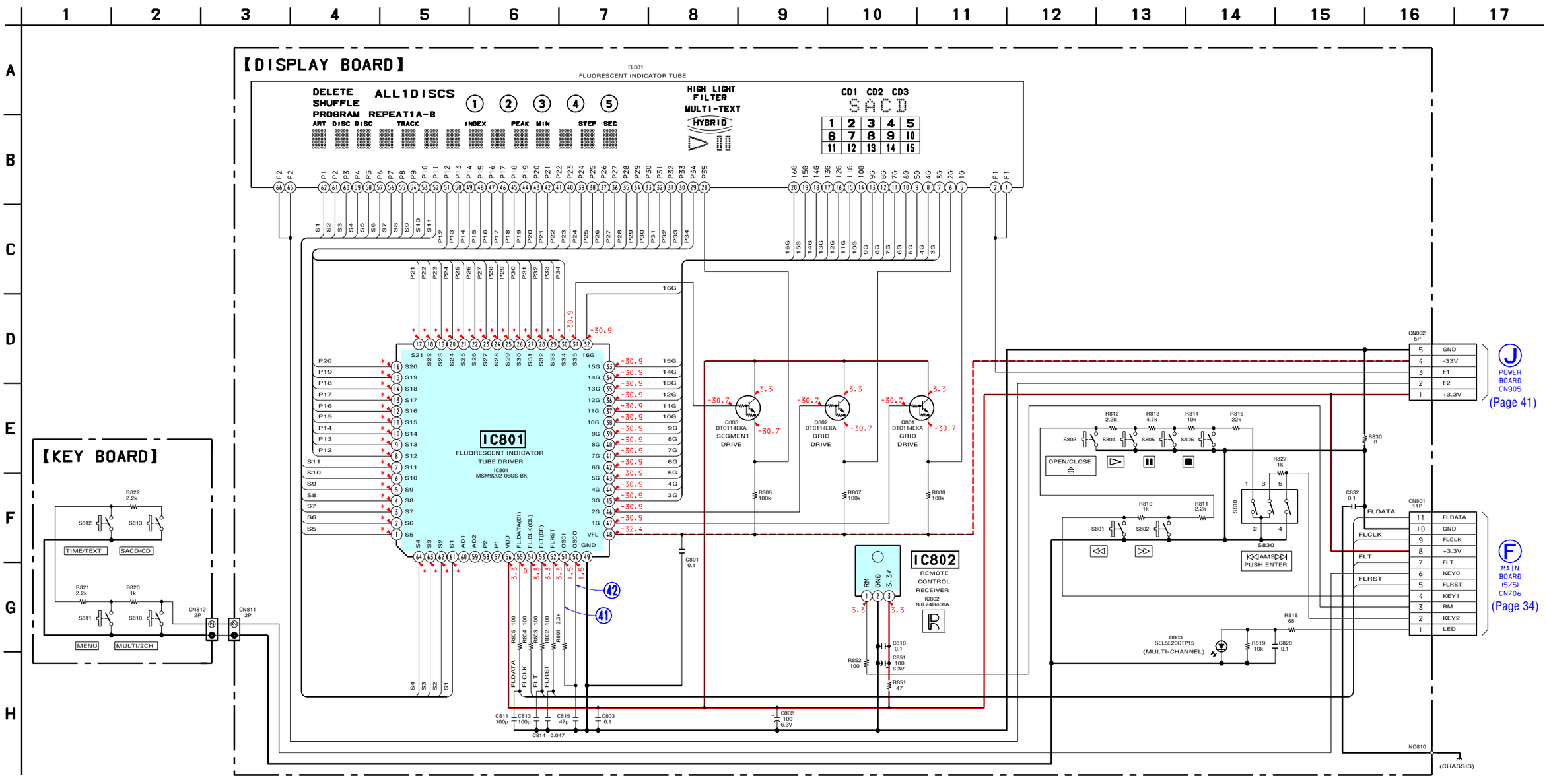
## 5-19. PRINTED WIRING BOARDS – DISPLAY/KEY Boards – • See page 25 for Circuit Boards Location.



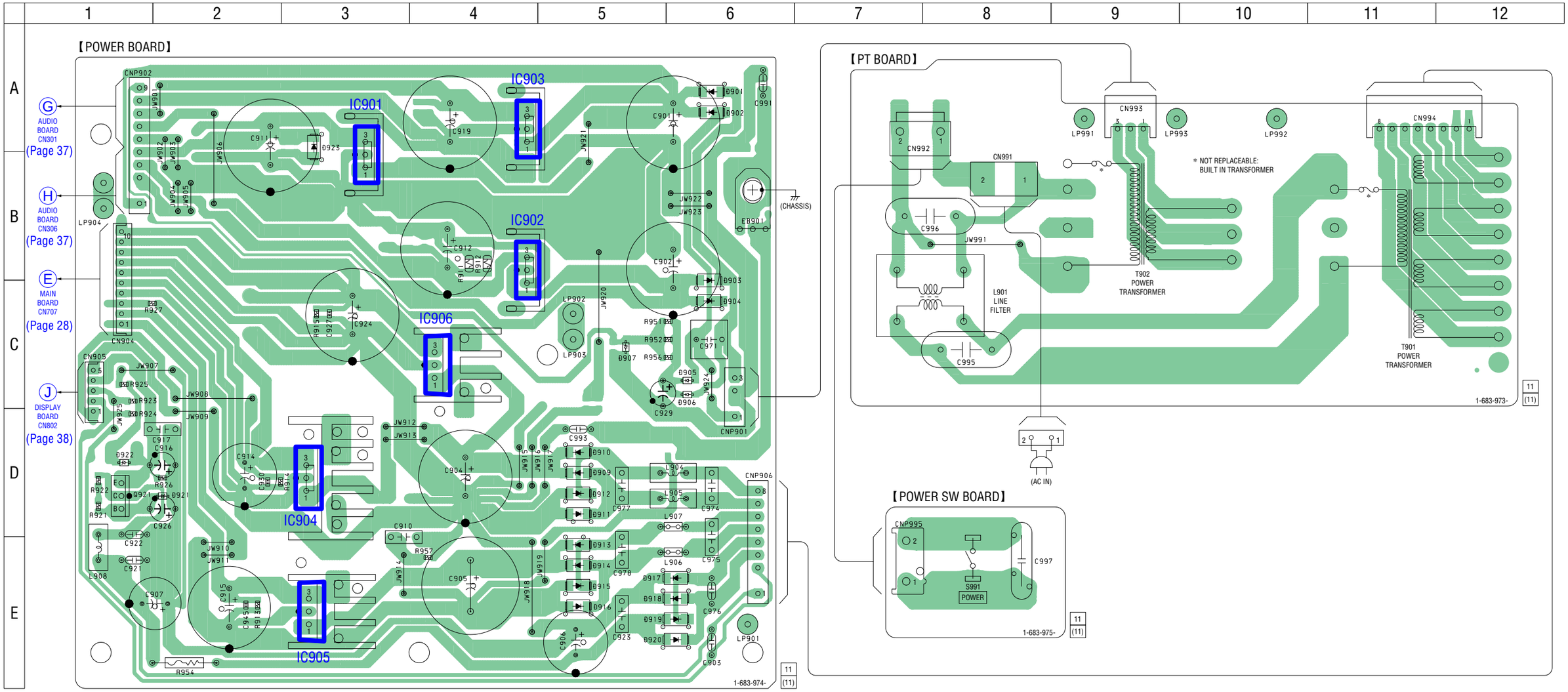

- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D803 | D-6 |
| IC801 | A-5 |
| IC802 | B-8 |
| Q801 | B-8 |
| Q802 | B-7 |
| Q803 | B-7 |

## 5-20. SCHEMATIC DIAGRAM – DISPLAY/KEY Boards – • See page 42 for Waveforms.



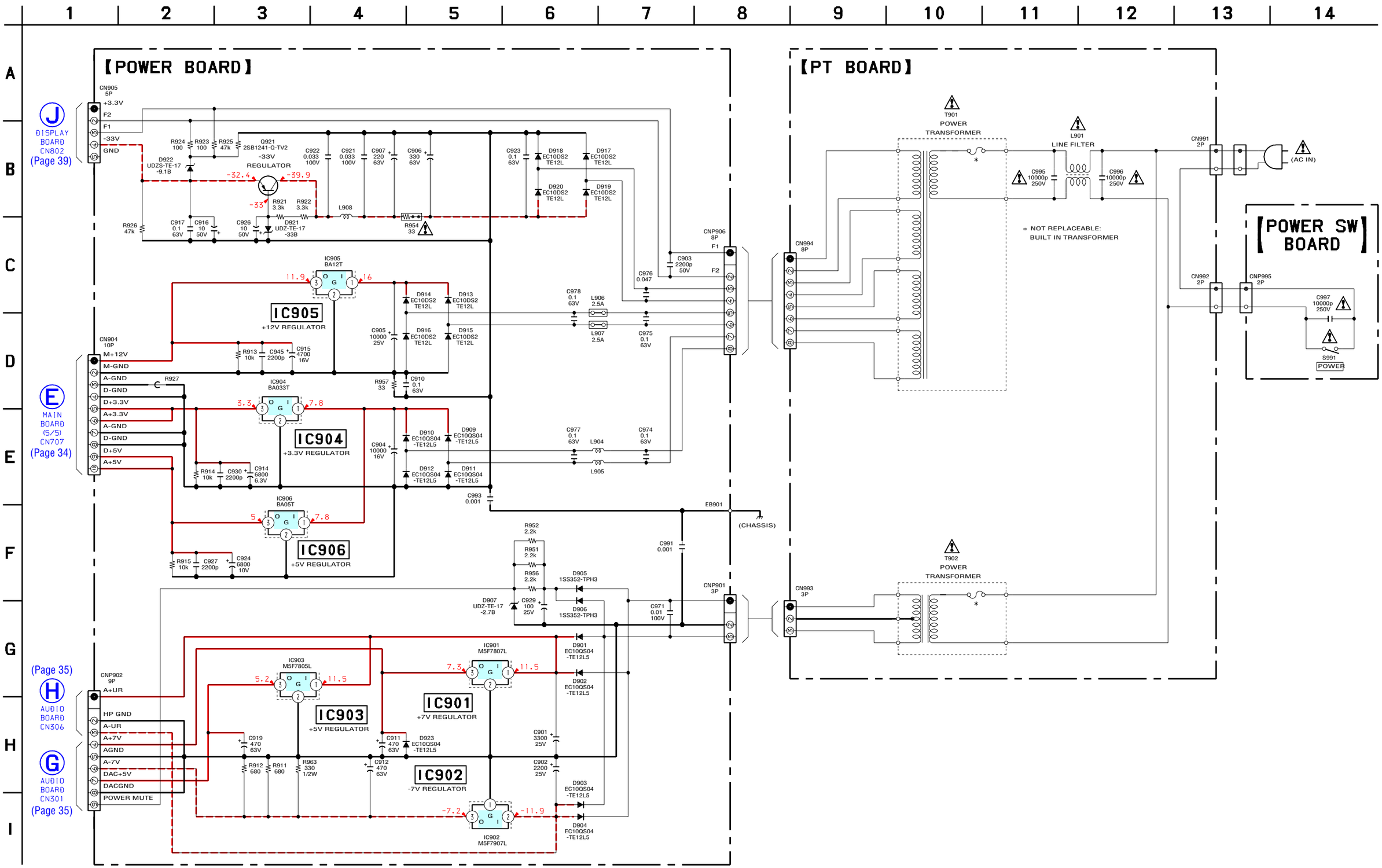
## 5-21. PRINTED WIRING BOARDS – POWER/POWER SW/PT Boards – • See page 25 for Circuit Boards Location.




- **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D901 | A-6 | D918 | E-6 |
| D902 | A-6 | D919 | E-6 |
| D903 | C-6 | D920 | E-6 |
| D904 | C-6 | D921 | D-2 |
| D905 | C-6 | D922 | D-1 |
| D906 | C-6 | D923 | A-3 |
| D907 | C-5 | | |
| D909 | D-5 | IC901 | A-3 |
| D910 | D-5 | IC902 | B-4 |
| D911 | D-5 | IC903 | A-4 |
| D912 | D-5 | IC904 | D-3 |
| D913 | E-5 | IC905 | E-3 |
| D914 | E-5 | IC906 | C-4 |
| D915 | E-5 | | |
| D916 | E-5 | Q921 | D-1 |
| D917 | E-6 | | |

## 5-22. SCHEMATIC DIAGRAM – POWER/POWER SW/PT Boards –

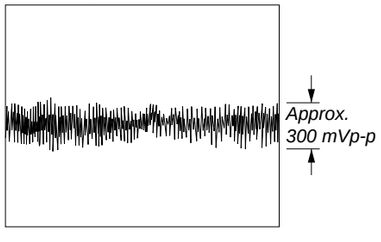



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

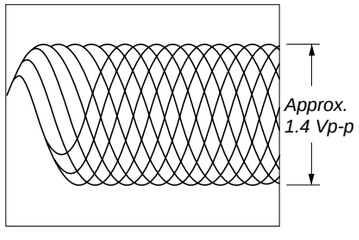
**• Waveforms**

**– RF Board –**

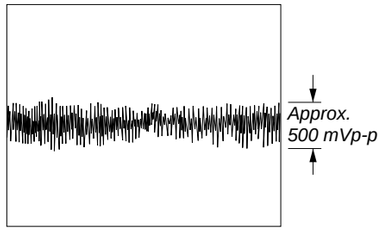
❶ IC001 ㊴ (TE) (SACD Play mode)



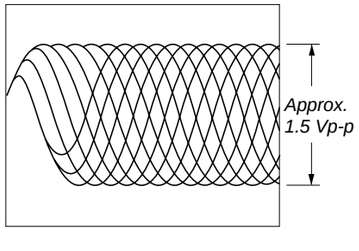

❸ IC001 ㊼ (RFAC) (SACD Play mode)



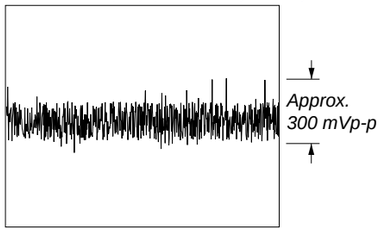

❶ IC001 ㊴ (TE) (CD Play mode)



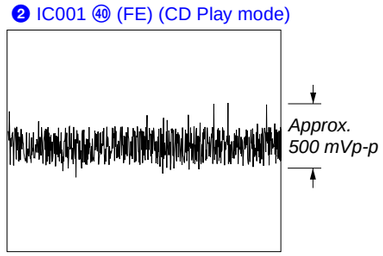

❸ IC001 ㊼ (RFAC) (CD Play mode)




❷ IC001 ㊵ (FE) (SACD Play mode)

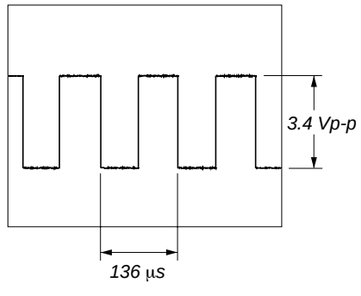



❷ IC001 ㊵ (FE) (CD Play mode)

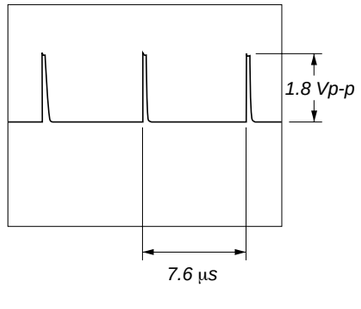



**– MAIN Board –**

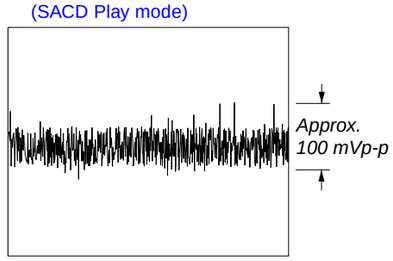
⓫ IC509 ⑩ (WFCK), IC701 ⑮ (WFCK)



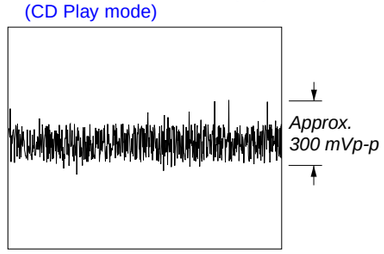

⓬ IC509 ㉕ (MDP) (CD Play mode)



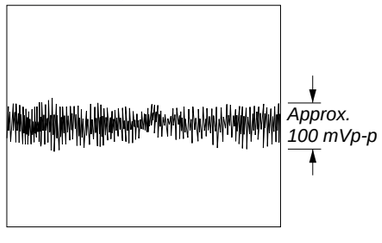

⓭ IC509 ㊴ (FE), IC901 ㊼ (FE) (SACD Play mode)



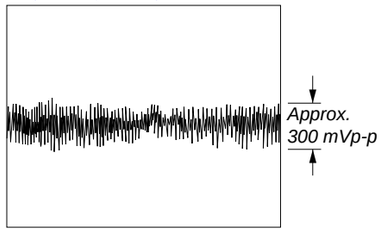

⓭ IC509 ㊴ (FE), IC901 ㊼ (FE) (CD Play mode)



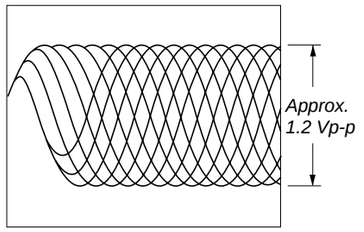

⓮ IC509 ㊶ (TE), IC901 ㊺ (TE) (SACD Play mode)



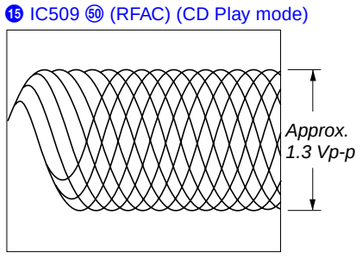

⓮ IC509 ㊶ (TE), IC901 ㊺ (TE) (CD Play mode)



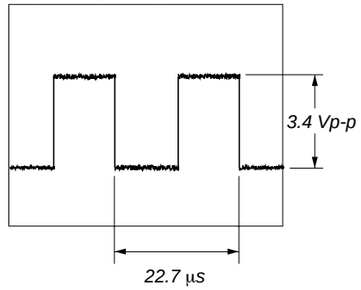

⓯ IC509 ㊿ (RFAC) (SACD Play mode)



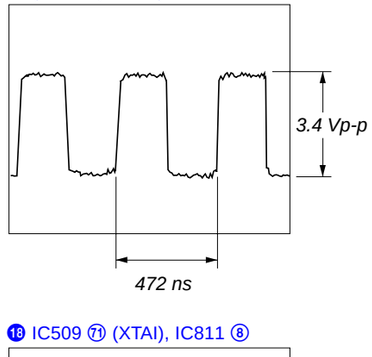

⓯ IC509 ㊿ (RFAC) (CD Play mode)



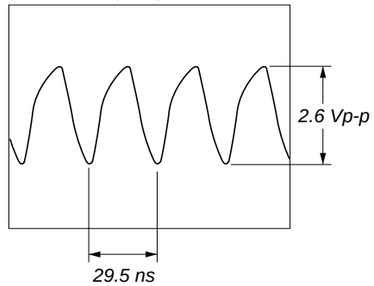

⓰ IC509 ㊺ (LRCK), IC701 ⑯ (LRCK) (CD Play mode)



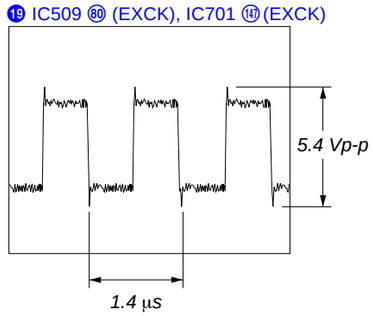

⓱ IC509 ㊼ (BCK), IC701 ⑭ (BCLK) (CD Play mode)



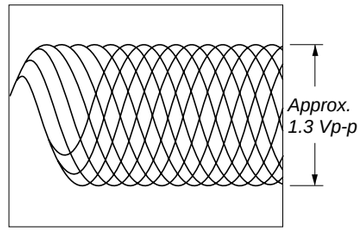

⓲ IC509 ㉑ (XTAI), IC811 ⑧



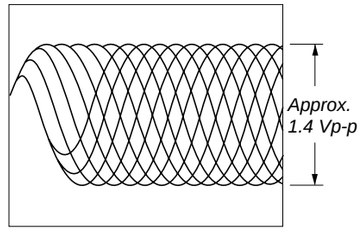

⓳ IC509 ㊽ (EXCK), IC701 ⑰ (EXCK)



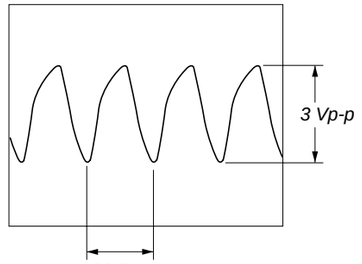

⓴ IC701 ⑰ (RFIN) (SACD Play mode)



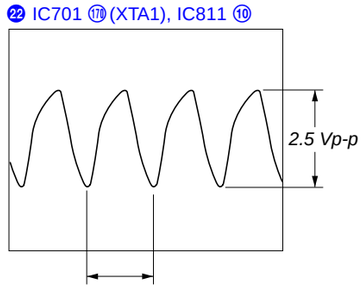

⓴ IC701 ⑰ (RFIN) (CD Play mode)




㉑ IC701 ⑯ (XTAL), ⑱ (XTA2)

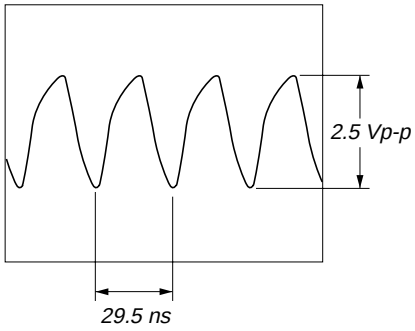



㉒ IC701 ⑱ (XTA1), IC811 ⑩

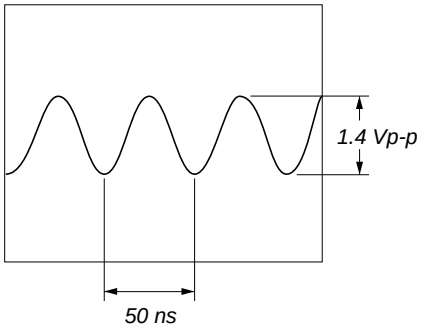


**– AUDIO Board –**

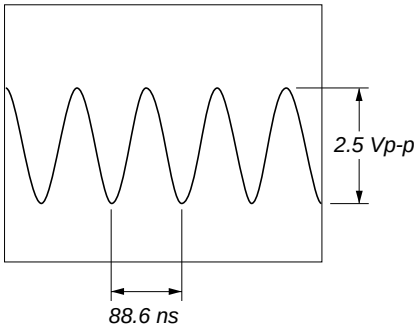
㉓ IC801 ⑪ (MCKI), IC811 ⑫



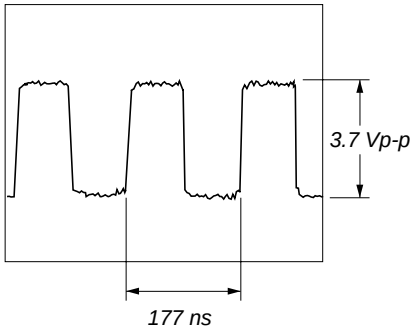

㉗ IC901 ㊶ (EXTAL)



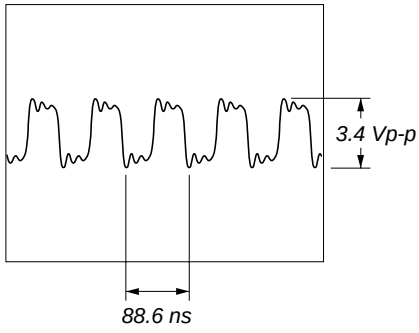

㉛ IC304 ①



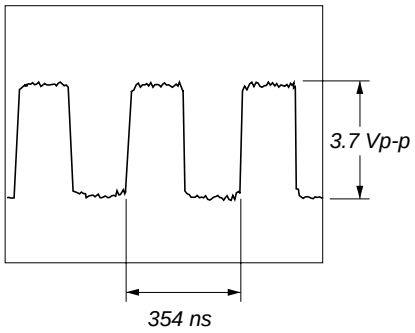

㉔ IC801 ㊾ (BCKAI), IC904 ④ (FS128)



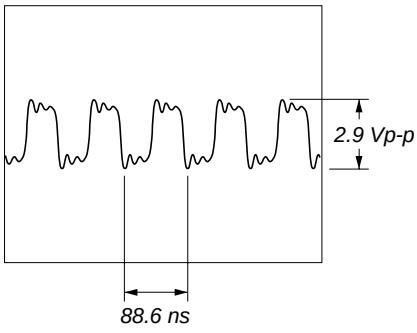

㉜ IC304 ④, IC301 ㉝ (PSCK), ㉞ (DSCK)



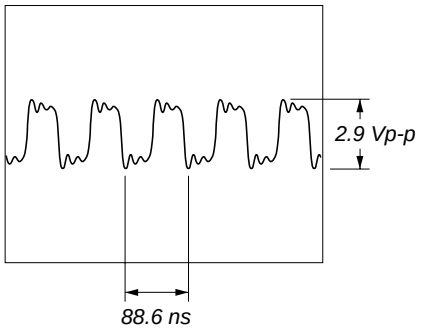

㉕ IC801 ㊶ (PHREFI), IC904 ③ (FS64)



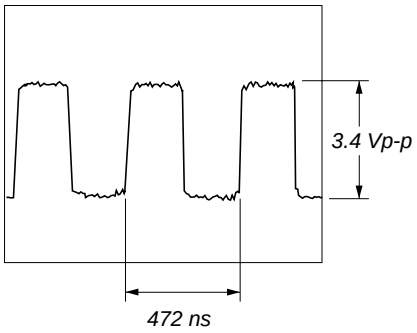

㉝ IC304 ⑥




㉖ IC811 ①, IC904 ⑤ (YO)

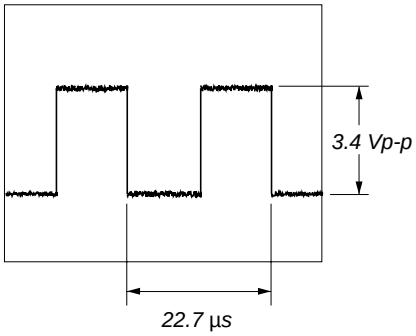



㉞ IC301 ㊿ (PBCK) (CD Play mode)

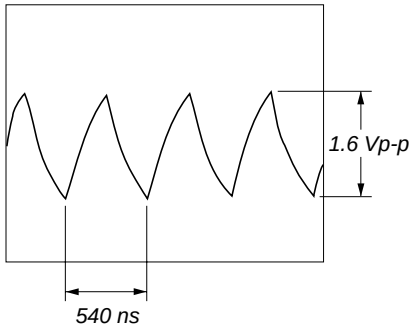


**– DISPLAY Board –**

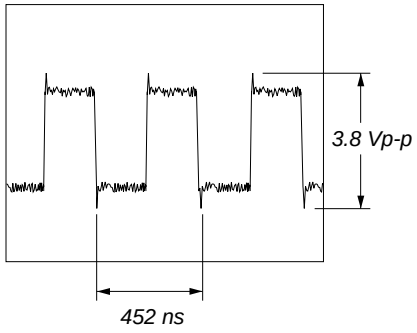
㉟ IC301 ㊶ (PLRCK) (CD Play mode)




㊶ IC801 ㊿ (OSCO)

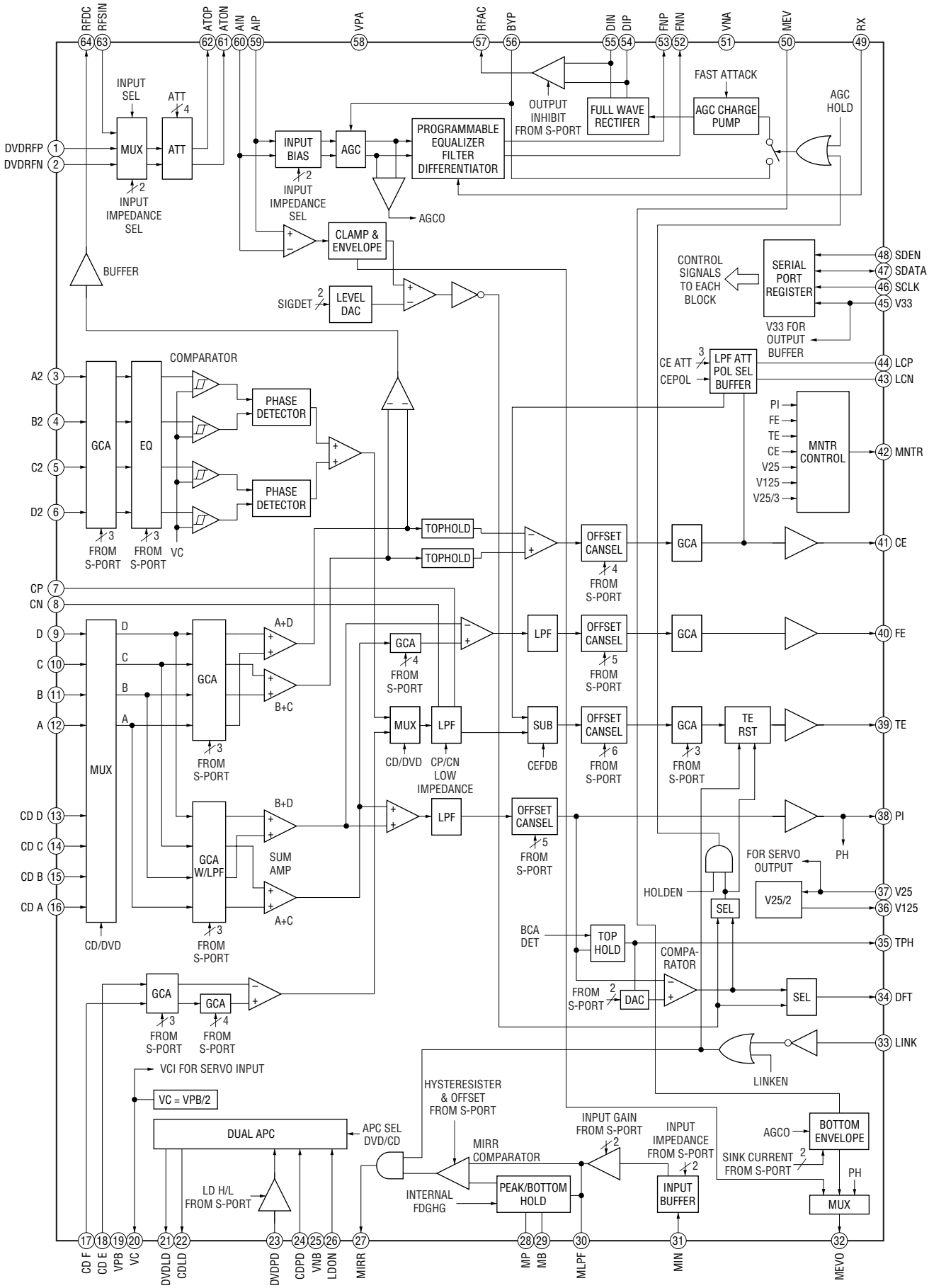



㊷ IC801 ㊶ (OSCI)



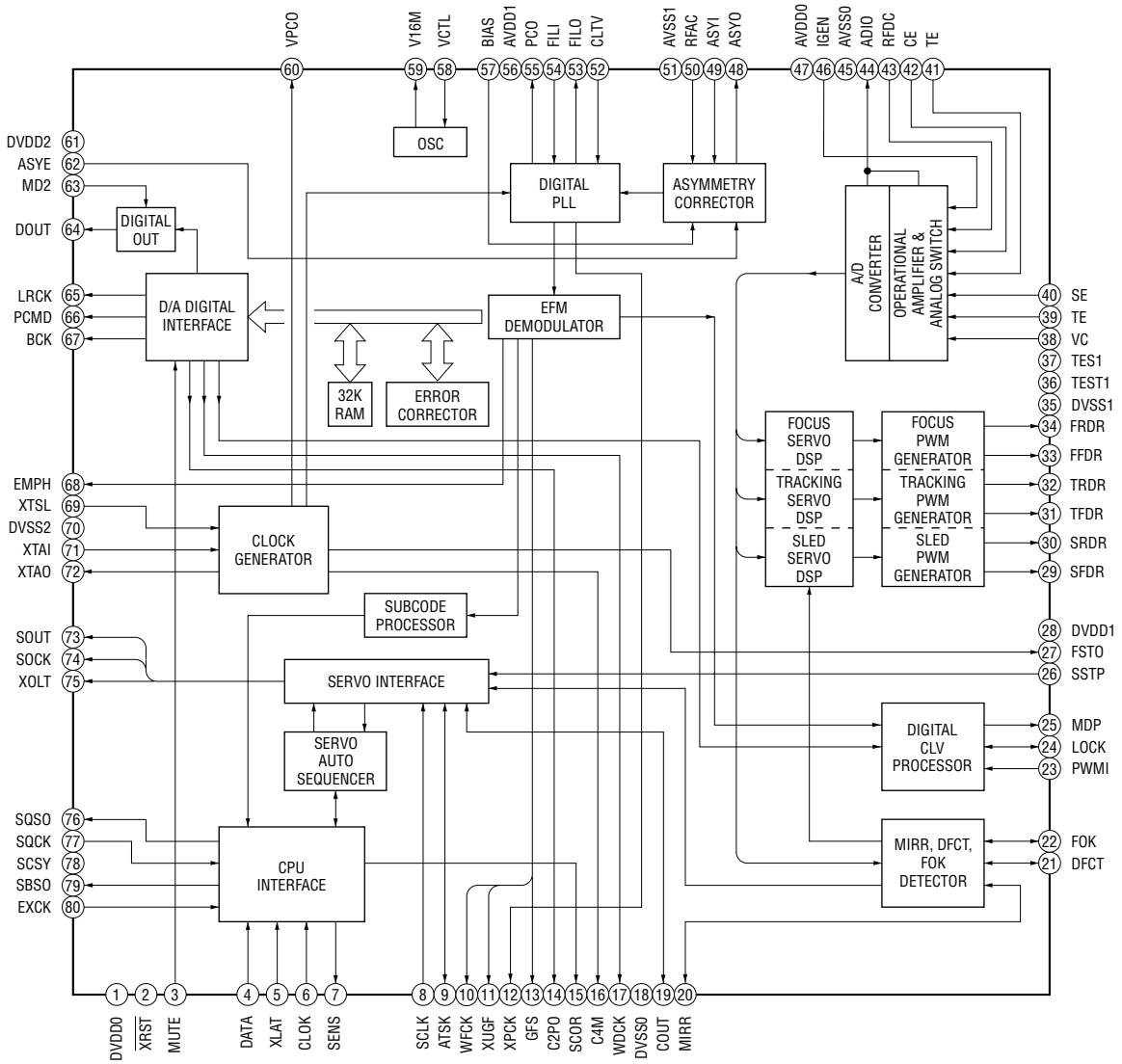
• **IC Block Diagrams**
**– RF Board –**

## IC001 CXD1881AR-2

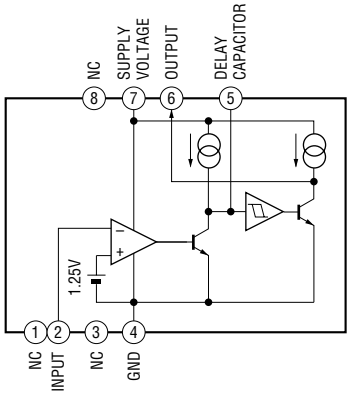


**– MAIN Board –**

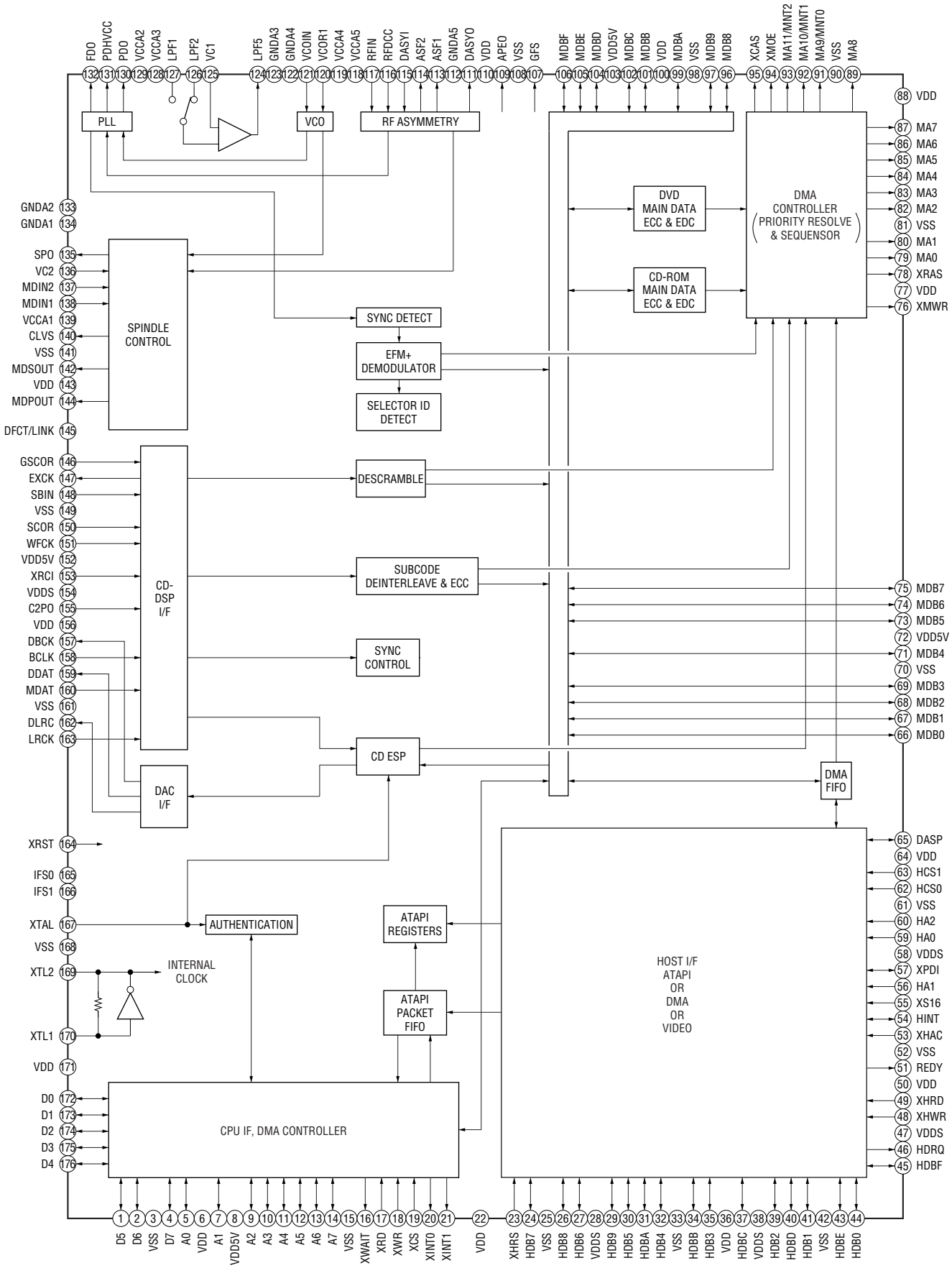
## IC509 CXD3068Q




## IC905 M51957BFP-600C

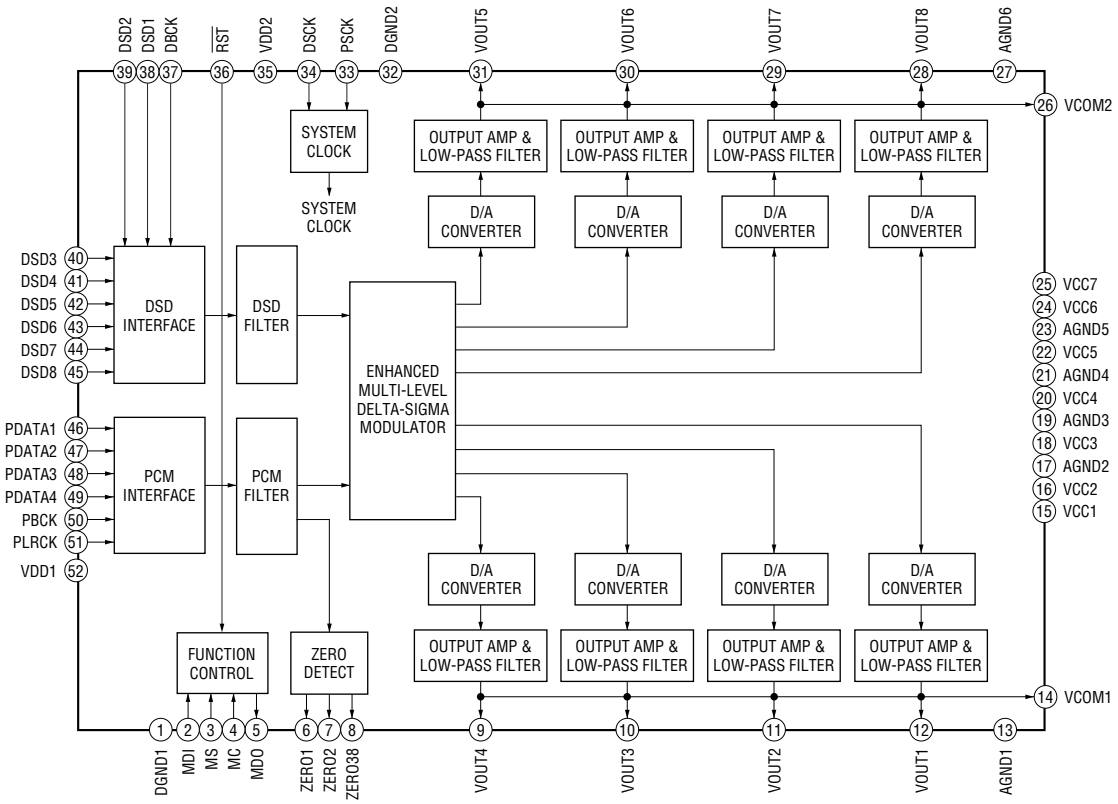


## IC701 CXD1882R-1



**– AUDIO Board –**

**IC301 CXD9709Q**



## 5-23. IC PIN FUNCTION DESCRIPTION

### • MAIN BOARD IC509 CXD3068Q (DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | DVDD0 | — | Power supply terminal (+3.3V) (digital system) |
| 2 | XRST | I | Reset signal input from the programmable logic device "L": reset |
| 3 | MUTE | I | Muting on/off control signal input from the CPU "H": muting on |
| 4 | DATA | I | Serial data input from the CPU |
| 5 | XLAT | I | Serial data latch pulse signal input from the CPU |
| 6 | CLOK | I | Serial data transfer clock signal input from the CPU |
| 7 | SENS | O | Internal status (SENSE) signal output to the CPU |
| 8 | SCLK | I | SENSE serial data reading clock signal input from the CPU |
| 9 | ATSK | I/O | Input/output terminal for anti-shock Not used |
| 10 | WFCK | O | Write frame clock signal output to the SACD decoder |
| 11 | RFCK | O | RFCK signal output terminal Not used |
| 12 | XPCK | O | XPCK signal output terminal Not used |
| 13 | GFS | O | Guard frame sync signal output to the CPU |
| 14 | C2PO | O | C2 pointer signal output to the SACD decoder |
| 15 | SCOR | O | Subcode sync (S0+S1) detection signal output to the SACD decoder and CPU |
| 16 | C4M | O | 4.2336 MHz clock signal output terminal Not used |
| 17 | WDCK | O | Guard subcode sync (S0+S1) detection signal output to the SACD decoder |
| 18 | DVSS0 | — | Ground terminal (digital system) |
| 19 | COUT | O | Numbers of track counted signal output to the CPU |
| 20 | MIRR | O | Mirror signal output to the CPU |
| 21 | DFCT | I/O | Defect signal input/output terminal Not used |
| 22 | FOK | O | Focus OK signal output to the CPU |
| 23 | PWMI | I | Spindle motor external control signal input terminal Not used |
| 24 | LOCK | O | GFS is sampled by 460 Hz "H" output when GFS is "H" |
| 25 | MDP | O | Spindle motor servo drive signal output to the SACD decoder |
| 26 | SSTP | I | Detection signal input from limit in switch The optical pick-up is inner position when "H" |
| 27 | FSTO | O | 2/3 divider output terminal Not used |
| 28 | DVDD1 | — | Power supply terminal (+3.3V) (digital system) |
| 29 | SFDR | O | Sled servo drive PWM signal (+) output |
| 30 | SRDR | O | Sled servo drive PWM signal (–) output |
| 31 | TFDR | O | Tracking servo drive PWM signal (+) output |
| 32 | TRDR | O | Tracking servo drive PWM signal (–) output |
| 33 | FFDR | O | Focus servo drive PWM signal (+) output |
| 34 | FRDR | O | Focus servo drive PWM signal (–) output |
| 35 | DVSS1 | — | Ground terminal (digital system) |
| 36 | TEST | I | Input terminal for the test |
| 37 | TES1 | I | Input terminal for the test |
| 38 | VC | I | Middle point voltage (+1.65V) input terminal |
| 39 | FE | I | Focus error signal input from the SACD/CD RF amplifier |
| 40 | SE | I | Sled error signal input from the SACD/CD RF amplifier |
| 41 | TE | I | Tracking error signal input from the SACD/CD RF amplifier |
| 42 | CE | I | Middle point servo analog signal input |
| 43 | RFDC | I | RF signal input from the SACD/CD RF amplifier |
| 44 | ADIO | O | Output terminal for the test Not used |
| 45 | AVSS0 | — | Ground terminal (analog system) |
| 46 | IGEN | I | Stabilized current input for operational amplifiers |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 47 | AVDD0 | — | Power supply terminal (+3.3V) (analog system) |
| 48 | ASYO | O | EFM full-swing output terminal |
| 49 | ASYI | I | Asymmetry comparator voltage input terminal |
| 50 | RFAC | I | EFM signal input from the SACD/CD RF amplifier |
| 51 | AVSS1 | — | Ground terminal (analog system) |
| 52 | CLTV | I | Internal VCO control voltage input terminal |
| 53 | FILO | O | Filter output for master PLL |
| 54 | FILI | I | Filter input for master PLL |
| 55 | PCO | O | Charge pump output for master PLL |
| 56 | AVDD1 | — | Power supply terminal (+3.3V) (analog system) |
| 57 | BIAS | I | Asymmetry circuit constant current input terminal |
| 58 | VCTL | I | VCO control voltage input terminal for the wideband EFM PLL Not used |
| 59 | V16M | O | VCO oscillation output terminal for the wideband EFM PLL Not used |
| 60 | VPCO | O | Charge pump output terminal for the wideband EFM PLL Not used |
| 61 | DVDD2 | — | Power supply terminal (+3.3V) (digital system) |
| 62 | ASYE | I | Asymmetry circuit on/off control signal input terminal "L": off, "H": on Not used |
| 63 | MD2 | I | Digital out on/off control signal input from the CPU<br>"L": digital out off, "H": digital out on |
| 64 | DOUT | O | Digital audio signal output |
| 65 | LRCK | O | L/R sampling clock signal (44.1 kHz) output to the SACD decoder and digital filter |
| 66 | PCMD | O | Serial data output to the SACD decoder and digital filter |
| 67 | BCLK | O | Bit clock signal (2.8224 MHz) output to the SACD decoder and digital filter |
| 68 | EMPH | O | "L" is output when playback disc is emphasis off<br>"H" is output when playback disc is emphasis on Not used |
| 69 | XTSL | I | Input terminal for the system clock frequency setting<br>"L": 16.9344 MHz, "H": 33.8688MHz Fixed at "H" in this set |
| 70 | DVSS2 | — | Ground terminal (digital system) |
| 71 | XTAI | I | System clock input terminal (33.8688 MHz) |
| 72 | XTAO | O | System clock output terminal (33.8688 MHz) Not used |
| 73 | SOUT | O | Serial data output terminal Not used |
| 74 | SOCK | O | Serial data reading clock signal output terminal Not used |
| 75 | XOLT | O | Serial data latch pulse signal output terminal Not used |
| 76 | SQSO | O | Subcode Q data output to the CPU |
| 77 | SQCK | I | Subcode Q data reading clock signal input from the CPU |
| 78 | SCSY | I | Input terminal for resynchronism of guard subcode sync (S0+S1) Not used |
| 79 | SBSO | O | Subcode serial data output to the SACD decoder |
| 80 | EXCK | I | Subcode serial data reading clock signal input to the SACD decoder |

• **MAIN BOARD IC701 CXD1882R-1 (SACD DECODER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1, 2 | D5, D6 | I/O | Two-way data bus with the CPU and programmable logic device |
| 3 | VSS | — | Ground terminal (digital system) |
| 4 | D7 | I/O | Two-way data bus with the CPU and programmable logic device |
| 5 | A0 | I | Address signal input from the CPU |
| 6 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 7 | A1 | I | Address signal input from the CPU |
| 8 | VDD5V | — | Power supply terminal (+5V) |
| 9 to 14 | A2 to A7 | I | Address signal input from the CPU |
| 15 | VSS | — | Ground terminal (digital system) |
| 16 | XWAIT | O | Wait signal output terminal Not used |
| 17 | XRD | I | Read strobe signal input from the CPU |
| 18 | XWR | I | Write strobe signal input from the CPU |
| 19 | XCS | I | Chip select signal input from the CPU |
| 20, 21 | XINT0, XINT1 | O | Interrupt signal output to the CPU |
| 22 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 23 | XHRS | I | Not used |
| 24 | HDB7 | O | Stream data signal output to the DSD decoder |
| 25 | VSS | — | Ground terminal (digital system) |
| 26 | HDB8 | O | Error flag signal output to the DSD decoder |
| 27 | HDB6 | O | Stream data signal output to the DSD decoder |
| 28 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 29 | HDB9 | O | Not used |
| 30 | HDB5 | O | Stream data signal output to the DSD decoder |
| 31 | HDBA | O | Not used |
| 32 | HDB4 | O | Stream data signal output to the DSD decoder |
| 33 | VSS | — | Ground terminal (digital system) |
| 34 | HDBB | O | Not used |
| 35 | HDB3 | O | Stream data signal output to the DSD decoder |
| 36 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 37 | HDBC | O | Not used |
| 38 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 39 | HDB2 | O | Stream data signal output to the DSD decoder |
| 40 | HDBD | O | Not used |
| 41 | HDB1 | O | Stream data signal output to the DSD decoder |
| 42 | VSS | — | Ground terminal (digital system) |
| 43 | HDBE | O | Not used |
| 44 | HDB0 | O | Stream data signal output to the DSD decoder |
| 45 | HDBF | O | Not used |
| 46 | XSAK | O | Serial data effect flag signal output to the DSD decoder |
| 47 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 48 | XDCK | O | Serial data transfer clock signal output to the DSD decoder |
| 49 | XSHD | O | Header flag signal output to the DSD decoder |
| 50 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 51 | REDY | O | Not used |
| 52 | VSS | — | Ground terminal (digital system) |
| 53 | XSRQ | I | Serial data request signal input from the DSD decoder |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 54 | HINT | O | Not used |
| 55 | XS16 | O | Not used |
| 56 | HA1 | I | Not used |
| 57 | XPDI | I/O | Not used |
| 58 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 59, 60 | HA0, HA2 | I | Not used |
| 61 | VSS | — | Ground terminal (digital system) |
| 62, 63 | HCS0, HCS1 | I | Not used |
| 64 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 65 | DASP | I/O | Not used |
| 66 to 69 | MDB0 to MDB3 | I/O | Two-way data bus with the D-RAM |
| 70 | VSS | — | Ground terminal (digital system) |
| 71 | MDB4 | I/O | Two-way data bus with the D-RAM |
| 72 | VDD5V | — | Power supply terminal (+5V) |
| 73 to 75 | MDB5 to MDB7 | I/O | Two-way data bus with the D-RAM |
| 76 | XMWR | O | Write enable signal output to the D-RAM |
| 77 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 78 | XRAS | O | Row address strobe signal output to the D-RAM |
| 79, 80 | MA0, MA1 | O | Address signal output to the D-RAM |
| 81 | VSS | — | Ground terminal (digital system) |
| 82 to 87 | MA2 to MA7 | O | Address signal output to the D-RAM |
| 88 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 89 | MA8 | O | Address signal output to the D-RAM |
| 90 | VSS | — | Ground terminal (digital system) |
| 91 | MA9 | O | Address signal output to the D-RAM |
| 92 | MA10/MNT1 | O | RF data signal output terminal Not used |
| 93 | MA11/MNT2 | O | Operation clock signal output for PSP physical disc mark detection to DSD decoder |
| 94 | XMOE | O | Output enable signal output to the D-RAM |
| 95 | XCAS | O | Column address strobe signal output to the D-RAM |
| 96, 97 | MDB8, MDB9 | I/O | Two-way data bus with the D-RAM |
| 98 | VSS | — | Ground terminal (digital system) |
| 99 | MDBA | I/O | Two-way data bus with the D-RAM |
| 100 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 101, 102 | MDBB, MDBC | I/O | Two-way data bus with the D-RAM |
| 103 | VDD5V | — | Power supply terminal (+5V) |
| 104 to 106 | MDBD to MDBF | I/O | Two-way data bus with the D-RAM |
| 107 | GFS | O | Guard frame sync signal output to the CPU |
| 108 | VSS | — | Ground terminal (digital system) |
| 109 | APEO | O | Absolute phase error signal output |
| 110 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 111 | DASYO | O | RF binary signal output |
| 112 | GNDA5 | — | Ground terminal (analog system) |
| 113, 114 | ASF1, AFS2 | — | Filter connected terminal for selection the constant asymmetry compensation |
| 115 | DASYI | I | Analog signal input after integrated from the RF binary signal |
| 116 | RFDCC | I | Input terminal for adjusting DC cut high-pass filter for RF signal Not used |
| 117 | RFIN | I | RF signal input from the SACD/CD RF amplifier |
| 118, 119 | VCCA5, VCCA4 | — | Power supply terminal (+3.3V) (analog system) |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 120 | VCOR1 | — | VCO oscillating range setting resistor connected terminal |
| 121 | VCOIN | I | VCO input terminal |
| 122, 123 | GNDA4, GNDA3 | — | Ground terminal (analog system) |
| 124 | LPF5 | O | Signal output from the operation amplifier from PLL loop filter |
| 125 | VC1 | I | Middle point voltage (+1.65V) input terminal |
| 126, 127 | LPF2, LPF1 | I | Inverted signal input to the operation amplifier from PLL loop filter |
| 128, 129 | VCCA3, VCCA2 | — | Power supply terminal (+3.3V) (analog system) |
| 130 | PDO | O | Signal output from the charge pump for phase comparator |
| 131 | PDHVCC | I | Middle point voltage input terminal for RF PLL |
| 132 | FDO | O | Signal output from the charge pump for frequency comparator |
| 133, 134 | GNDA2, GNDA1 | — | Ground terminal (analog system) |
| 135 | SPO | O | Spindle motor control signal output |
| 136 | VC2 | I | Middle point voltage (+1.65V) input terminal |
| 137 | MDIN2 | I | Spindle motor servo drive signal input |
| 138 | MDIN1 | I | MDP input terminal |
| 139 | VCCA1 | — | Power supply terminal (+3.3V) (analog system) |
| 140 | CLVS | O | Control signal output for selection the spindle control filter constant at CLVS |
| 141 | VSS | — | Ground terminal (digital system) |
| 142 | MDSOUT | O | Frequency error output terminal of internal CLV circuit |
| 143 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 144 | MDPOUT | O | Phase error output terminal of internal CLV circuit |
| 145 | DEFECT | I | Defect signal input terminal Not used |
| 146 | GSCOR | I | Guard subcode sync (S0+S1) detection signal input from the digital signal processor |
| 147 | EXCK | O | Subcode serial data reading clock signal output to the digital signal processor |
| 148 | SBIN | I | Subcode serial data input from the digital signal processor |
| 149 | VSS | — | Ground terminal (digital system) |
| 150 | SCOR | I | Subcode sync (S0+S1) detection signal input from the digital signal processor |
| 151 | WFCK | I | Write frame clock signal input from the digital signal processor |
| 152 | VDD5V | — | Power supply terminal (+5V) |
| 153 | XRCI | I | RAM overflow signal input terminal Not used |
| 154 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 155 | C2PO | I | C2 pointer signal input from the digital signal processor |
| 156 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 157 | DBCK | O | Bit clock signal (2.8224 MHz) output terminal Not used |
| 158 | BCLK | I | Bit clock signal (2.8224 MHz) input from the digital signal processor |
| 159 | DDAT | O | PCM data output terminal Not used |
| 160 | MDAT | I | Serial data input from the digital signal processor |
| 161 | VSS | — | Ground terminal (digital system) |
| 162 | DLRC | O | L/R sampling clock signal (44.1 kHz) output terminal Not used |
| 163 | LRCK | I | L/R sampling clock signal (44.1 kHz) input from the digital signal processor |
| 164 | XRST | I | Reset signal input from the programmable logic device “L”: reset |
| 165 | IFS0 | I | Interface selection signal input terminal Fixed at “L” in this set |
| 166 | IFS1 | I | Interface selection signal input terminal Fixed at “H” in this set |
| 167 | XTAL | I | 33.8688 MHz clock signal input terminal |
| 168 | VSS | — | Ground terminal (digital system) |
| 169 | XTA2 | O | System clock output terminal (33.8688 MHz) |
| 170 | XTA1 | I | System clock input terminal (33.8688 MHz) |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 171 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 172 to 176 | D0 to D4 | I/O | Two-way data bus with the CPU and programmable logic device |

• **MAIN BOARD IC801 CXD2753R (DSD DECODER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | VSC | — | Ground terminal (for core) |
| 2 | XMSLAT | I | Serial data latch pulse signal input from the CPU |
| 3 | MSCK | I | Serial data transfer clock signal input from the CPU |
| 4 | MSDATI | I | Serial data input from the CPU |
| 5 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 6 | MSDATO | O | Serial data output to the CPU |
| 7 | $\overline{\text{MSREADY}}$ | O | Ready signal output to the CPU "L": ready |
| 8 | XMSDOE | O | Serial data output enable signal output terminal Not used |
| 9 | XRST | I | Reset signal input from the programmable logic device "L": reset |
| 10 | SMUTE | I | Soft muting on/off control signal input from the CPU "H": muting on |
| 11 | MCKI | I | Master clock signal (33.8688 MHz) input |
| 12 | VSIO | — | Ground terminal (for I/O) |
| 13 | EXCKO1 | O | External clock 1 signal output terminal Not used |
| 14 | EXCKO2 | O | External clock 2 signal output terminal Not used |
| 15 | LRCK | O | L/R sampling clock signal (44.1kHz) output terminal Not used |
| 16 | FRAME | O | Frame signal output terminal Not used |
| 17 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 18 to 21 | MNT0 to MNT3 | O | Monitor signal output terminal Not used |
| 22 to 25 | TESTO | O | Output terminal for the test (normally: open) |
| 26 | TCK | I | Clock signal input terminal for the test (normally: fixed at "L") |
| 27 | TDI | I | Input terminal for the test (normally: open) |
| 28 | VSC | — | Ground terminal (for core) |
| 29 | TDO | O | Output terminal for the test (normally: open) |
| 30 | TMS | I | Input terminal for the test (normally: open) |
| 31 | TRST | I | Reset terminal for the test (normally: fixed at "L") |
| 32 to 34 | TEST1 to TEST3 | I | Input terminal for the test (normally: fixed at "L") |
| 35 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 36 | TESTO | O | Output terminal for the test (normally: open) |
| 37 | XBIT | O | Monitor terminal relative to DST Not used |
| 38 to 41 | SUPDT0 to SUPDT3 | O | Supplementary data output terminal Not used |
| 42 | VSIO | — | Ground terminal (for I/O) |
| 43, 44 | SUPDT4, SUPDT5 | O | Supplementary data output terminal Not used |
| 45 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 46, 47 | SUPDT6, SUPDT7 | O | Supplementary data output terminal Not used |
| 48 | XSUPAK | O | Supplementary data acknowledge signal output terminal Not used |
| 49 | VSC | — | Ground terminal (for core) |
| 50 | TESTO | O | Output terminal for the test (normally: open) |
| 51, 52 | TESTI | I | Input terminal for the test (normally: fixed at "L") |
| 53 | TESTO | O | Output terminal for the test (normally: open) |
| 54 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 55 | DSADML | O | DSD data output terminal for L-ch down mix Not used |
| 56 | DSADMR | O | DSD data output terminal for R-ch down mix Not used |
| 57 | BCKASL | I | Input/output selection signal input terminal of bit clock signal (2.8224 MHz) for DSD data output "L": input (slave), "H": output (master) Fixed at "L" in this set |
| 58 | VSDSD | — | Ground terminal (for DSD data output) |
| 59 | BCKAI | I | Clock signal (5.6448 MHz) input from the programmable logic device |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 60 | BCKAO | O | Bit clock signal (2.8224 MHz) output terminal for DSD data output Not used |
| 61 | PHREFI | I | Clock signal (2.8224 MHz) input from the programmable logic device |
| 62 | PHREFO | O | Phase reference signal output terminal for DSD output phase modulation Not used |
| 63 | ZDFL | O | Front L-ch Zero data flag detection signal output to the programmable logic device |
| 64 | DSAL | O | Front L-ch DSD data output to the digital filter |
| 65 | ZDFR | O | Front R-ch Zero data flag detection signal output to the programmable logic device |
| 66 | DSAR | O | Front R-ch DSD data output to the digital filter |
| 67 | VDDSD | — | Power supply terminal (+3.3V) (for DSD data output) |
| 68 | ZDFC | O | Center zero data flag detection signal output terminal Not used |
| 69 | DSAC | O | Center DSD data output to the digital filter |
| 70 | ZDFLFE | O | Sub woofer zero data flag detection signal output terminal Not used |
| 71 | DSASW | O | Sub woofer DSD data output to the digital filter |
| 72 | VSDSD | — | Ground terminal (for DSD data output) |
| 73 | ZDFLS | O | Surround L-ch zero data flag detection signal output terminal Not used |
| 74 | DSALS | O | Surround L-ch DSD data output to the digital filter |
| 75 | ZDFRS | O | Surround R-ch zero data flag detection signal output terminal Not used |
| 76 | DSARS | O | Surround R-ch DSD data output to the digital filter |
| 77 | VDDSD | — | Power supply terminal (+3.3V) (For DSD data output) |
| 78, 79 | IOUT0, IOUT1 | O | Data output terminal for IEEE 1394 link chip interface Not used |
| 80 | VSC | — | Ground terminal (for core) |
| 81, 82 | IOUT2, IOUT3 | O | Data output terminal for IEEE 1394 link chip interface Not used |
| 83 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 84, 85 | IOUT4, IOUT5 | O | Data output terminal for IEEE 1394 link chip interface Not used |
| 86 | VSIO | — | Ground terminal (for I/O) |
| 87 | IANCO | O | Transmission information data output terminal for IEEE 1394 link chip interface Not used |
| 88 | IFULL | I | Data transmission hold request signal input terminal for IEEE 1394 link chip interface Not used |
| 89 | IEMPTY | I | High speed transmission request signal input terminal for IEEE 1394 link chip interface<br>Not used |
| 90 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 91 | IFRM | O | Frame reference signal output terminal for IEEE 1394 link chip interface Not used |
| 92 | IOUTE | O | Enable signal output terminal for IEEE 1394 link chip interface Not used |
| 93 | IBCK | O | Data transmission clock signal output terminal for IEEE 1394 link chip interface Not used |
| 94 | VSC | — | Ground terminal (for core) |
| 95 | TESTI | I | Input terminal for the test (normally: fixed at “H”) |
| 96 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 97 | TESTI | I | Input terminal for the test (normally: fixed at “H”) |
| 98 | TESTO | O | Output terminal for the test (normally: open) |
| 99 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 100 to 105 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 106 | VSIO | — | Ground terminal (for I/O) |
| 107 to 109 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 110 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 111 to 114 | WAD0 to WAD3 | I | External A/D data input terminal for PSP physical disc mark detection Not used |
| 115 | TESTI | I | Input terminal for disc inspection mode from the programmable logic device |
| 116 | VSC | — | Ground terminal (for core) |
| 117 to 120 | WAD4 to WAD7 | I | External A/D data input terminal for PSP physical disc mark detection Not used |
| 121 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 122 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 123 | WCK | I | Operation clock signal input for PSP physical disc mark detection from the SACD decoder |
| 124, 125 | WAVDD | — | A/D power supply terminal (+2.5V) (for PSP physical disc mark detection) |
| 126 | WARFI | I | Analog RF signal input for PSP physical disc mark detection from the SACD/CD RF amplifier |
| 127 | WAVRB | I | A/D bottom reference terminal for PSP physical disc mark detection |
| 128, 129 | WAVSS | — | A/D ground terminal (for PSP physical disc mark detection) |
| 130 | VSIO | — | Ground terminal (for I/O) |
| 131 to 134 | DQ7 to DQ4 | I/O | Two-way data bus with the D-RAM |
| 135 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 136 to 139 | DQ3 to DQ0 | I/O | Two-way data bus with the D-RAM |
| 140 | VSIO | — | Ground terminal (for I/O) |
| 141 | DCLK | O | Clock signal output to the D-RAM |
| 142 | DCKE | O | Clock enable signal output to the D-RAM |
| 143 | XWE | O | Write enable signal output to the D-RAM |
| 144 | XCAS | O | Column address strobe signal output to the D-RAM |
| 145 | XRAS | O | Row address strobe signal output to the D-RAM |
| 146 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 147 | TESTO | O | Output terminal for the test (normally: open) |
| 148, 149 | A11, A10 | O | Address signal output to the D-RAM |
| 150 | VSC | — | Ground terminal (for core) |
| 151, 152 | A9, A8 | O | Address signal output to the D-RAM |
| 153 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 154 to 157 | A7 to A4 | O | Address signal output to the D-RAM |
| 158 | VSIO | — | Ground terminal (for I/O) |
| 159 to 162 | A3 to A0 | O | Address signal output to the D-RAM |
| 163 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 164 | XSRQ | O | Serial data request signal output to the SACD decoder |
| 165 | XSHD | I | Header flag signal input from the SACD decoder |
| 166 | SDCK | I | Serial data transfer clock signal input from the SACD decoder |
| 167 | XSAK | I | Serial data effect flag signal input from the SACD decoder |
| 168 | SDEF | I | Error flag signal input from the SACD decoder |
| 169 to 176 | SD0 to SD7 | I | Stream data signal input from the SACD decoder |

• **MAIN BOARD IC901 CXP973064-227R (CPU)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | MUT LOAD | O | Muting on/off control signal output to the loading motor drive "H": muting on |
| 2 | AMUTE | O | Analog muting control signal output terminal Not used |
| 3 | DOCTRL | O | Digital out on/off control signal output to the digital signal processor<br>"L": digital out off, "H": digital out on |
| 4 | MUT 2D | O | Muting on/off control signal output to the focus/tracking coil drive "H": muting on |
| 5 | MODE DAC | I | Not used |
| 6 | SP ON | O | Muting on/off control signal output to the spindle motor drive "H": muting on |
| 7 | FCS JMP1 | O | Focus jump 1 signal output |
| 8 | FCS JMP2 | O | Focus jump 2 signal output |
| 9 | SENS CD | I | Internal status (SENSE) signal input from the digital signal processor |
| 10 | — | O | Not used |
| 11 | XCS IO | O | Chip select signal output to the programmable logic device |
| 12 | XCS DVD | O | Chip select signal output to the SACD decoder |
| 13 | VSS | — | Ground terminal (digital system) |
| 14 to 21 | D0 to D7 | I/O | Two-way data bus with the SACD decoder and programmable logic device |
| 22 | INT0 DVD | I | Interrupt signal input from the SACD decoder |
| 23 | INT1 DVD | I | Interrupt signal input from the SACD decoder |
| 24 | T SENS | I | Input terminal of disc tray status detection signal from table sensor Not used |
| 25 | MIRR RF | I | Mirror signal input from the digital signal processor |
| 26 | SCOR CD | I | Subcode sync (S0+S1) detection signal input from the digital signal processor |
| 27 | $\overline{\text{RDY DSD}}$ | I | Ready signal input from the DSD decoder "L": ready |
| 28 | A1IN | I | Input terminal of sircs remote control signal from CONTROL A1 II Not used |
| 29 | COUT CD | I | Numbers of track counted signal input from the digital signal processor |
| 30 | $\overline{\text{IN SW}}$ | I | Loading in switch input terminal "L": loading in |
| 31 | $\overline{\text{OUT SW}}$ | I | Loading out switch input terminal "L": loading out |
| 32 | — | O | Not used |
| 33 | SQSO CD | I | Subcode Q data input from the digital signal processor |
| 34 | DATA CD | O | Serial data output to the digital signal processor |
| 35 | CLOK CD | O | Serial data transfer clock signal output to the digital signal processor |
| 36 | XLAT CD | O | Serial data latch pulse signal output to the digital signal processor |
| 37 | SQCK CD | O | Subcode Q data reading clock signal output to the digital signal processor |
| 38 | XRST | I | System reset signal input "L": reset<br>For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H" |
| 39 | VSS | — | Ground terminal (digital system) |
| 40 | XTAL | I | System clock input terminal (20 MHz) |
| 41 | EXTAL | O | System clock output terminal (20 MHz) |
| 42 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 43 | SPDA | O | Spindle motor control signal output |
| 44 | APDO | O | Output terminal for offset adjustment of APEO (⑩⑧pin of SACD decoder) |
| 45 | LOAD IN | O | Loading motor drive signal (loading in direction) output |
| 46 | LOAD OUT | O | Loading motor drive signal (loading out direction) output |
| 47 | XLAT DSD | O | Serial data latch pulse signal output to the DSD decoder |
| 48 | SIN DSD | I | Serial data input from the DSD decoder |
| 49 | SOUT DSD | O | Serial data output to the DSD decoder and digital filter |
| 50 | SCK DSD | O | Serial data transfer clock signal output to the DSD decoder and digital filter |
| 51 | MUTE DSD | O | Muting on/off control signal output to the DSD decoder "H": muting on |
| 52 | XDIS IO | O | Reset signal output to the programmable logic device "L": reset |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 53 | FLOUT | O | Serial data output to the fluorescent indicator tube driver |
| 54 | FLCLK | O | Serial data transfer clock signal output to the fluorescent indicator tube driver |
| 55 | VSS | — | Ground terminal (digital system) |
| 56 | FLCS | O | Chip select signal output to the fluorescent indicator tube driver |
| 57 | LED DRV | O | LED drive signal output of the multi-channel indicator "H": LED on |
| 58 | GFS DVD | I | Guard frame sync signal input from the SACD decoder |
| 59 | SP ERR | I | Spindle motor backward voltage input terminal |
| 60 to 62 | KEY0 to KEY2 | I | Key input terminal (A/D input) |
| 63 | KEY3 | I | Key input terminal (A/D input) Not used |
| 64 | JITTER | I | Jitter signal input |
| 65 | TE | I | Tracking error signal input from the SACD/CD RF amplifier |
| 66 | PI | I | Pull in signal input from the SACD/CD RF amplifier |
| 67 | FE | I | Focus error signal input from the SACD/CD RF amplifier |
| 68 | AVSS | — | Ground terminal (for A/D converter) |
| 69 | AVREF | I | Reference voltage input terminal (for A/D converter) |
| 70 | AVDD | — | Power supply terminal (+3.3V) (for A/D converter) |
| 71 | GFS CD | I | Guard frame sync signal input from the digital signal processor |
| 72 | SCLK CD | O | SENSE serial data reading clock signal output to the digital signal processor |
| 73 | MUTE CD | O | Muting on/off control signal output to the digital signal processor "H": muting on |
| 74 | FOK CD | I | Focus OK signal input from the digital signal processor |
| 75 | LOCK CD | I | GFS is sampled by 460 Hz "H" input when GFS is "H" |
| 76 | — | O | Not used |
| 77 | CLK RF | O | Serial data transfer clock signal output to the SACD/CD RF amplifier |
| 78 | EEPSIO | I/O | Two-way data bus with the EEPROM |
| 79 | EEPSCL | O | Clock signal output to the EEPROM |
| 80 | RXD | I | Not used |
| 81 | TXD | O | Not used |
| 82 | RM | I | Remote control signal input |
| 83 | DATA RF | I/O | Two-way data bus with the SACD/CD RF amplifier |
| 84 | XWR | O | Write strobe signal output to the SACD decoder and programmable logic device |
| 85 | XRD | O | Read strobe signal output to the SACD decoder and programmable logic device |
| 86 | NC | — | Not used |
| 87 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 88 | VSS | — | Ground terminal (digital system) |
| 89 | A0 | O | Address signal output to the SACD decoder and programmable logic device |
| 90 to 96 | A1 to A7 | O | Address signal output to the SACD decoder |
| 97 | $\overline{\text{INIT DF}}$ | O | Reset signal output to the digital filter "L": reset |
| 98 | LATCH DF | O | Serial data latch pulse signal output to the digital filter |
| 99 | A1OUT | O | Output terminal of sircs remote control signal from CONTROL A1 II Not used |
| 100 | LD ON | O | Laser diode on/off control signal output to the SACD/CD RF amplifier<br>"L": laser diode off, "H": laser diode on |

• **MAIN BOARD IC904 ISPLSI2032VE-110LT44-SA (PROGRAMMABLE LOGIC DEVICE)**

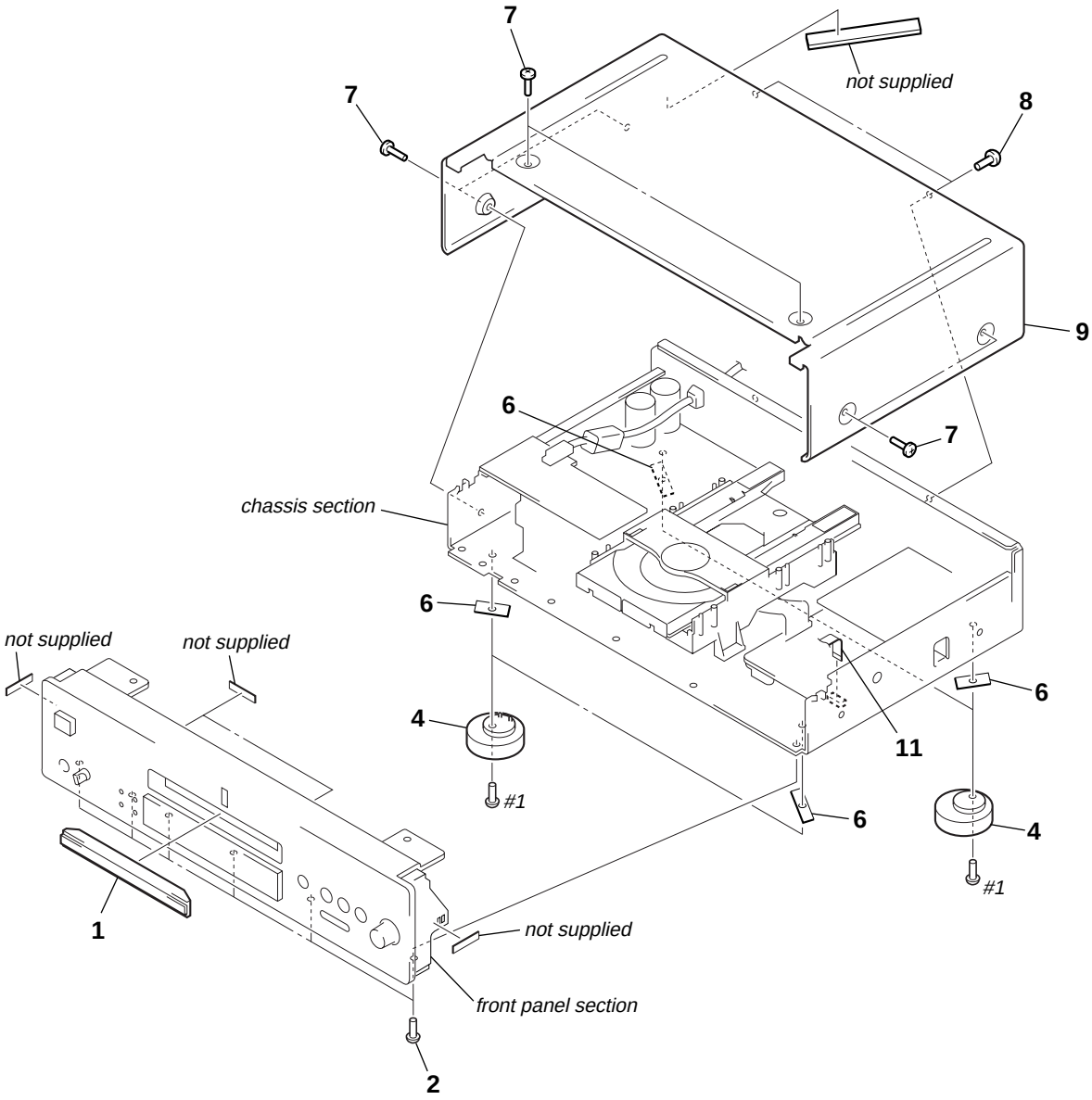
| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | TRKSW | O | Tracking coil drive on/off control signal output "H": drive on |
| 2 | ZEROL | I | L-ch zero data flag detection signal input from the digital filter |
| 3 | FS64 | O | Clock signal (2.8224 MHz) output to the digital filter and DSD decoder |
| 4 | FS128 | O | Clock signal (5.6448 MHz) output to the DSD decoder |
| 5 | YO | I | Clock signal (11.2896 MHz) input from the digital filter |
| 6 | VCC | — | Power supply terminal (+5V) (digital system) |
| 7 | XBSCAN | — | Not used |
| 8 | TDI | — | Not used |
| 9 | XCS | I | Chip select signal input from the CPU |
| 10 | XRD | I | Read strobe signal input from the CPU |
| 11 | XWR | I | Write strobe signal input from the CPU |
| 12 to 16 | D0 to D4 | I/O | Two-way data bus with the SACD decoder and the CPU |
| 17 | GND | — | Ground terminal (digital system) |
| 18 | TDO | — | Not used |
| 19 to 21 | D5 to D7 | I/O | Two-way data bus with the SACD decoder and the CPU |
| 22 | A | I | Address signal input from the CPU |
| 23 | CDPDSW | O | Photo diode for CD on/off control signal output "L": photo diode on |
| 24 | $\overline{\text{RST}}$ | I | Reset signal input from the CPU "L": reset |
| 25 | $\overline{\text{RST DSD}}$ | O | Reset signal output to the DSD decoder "L": reset |
| 26 | $\overline{\text{RST DP}}$ | O | Reset signal output to the fluorescent indicator tube driver "L": reset |
| 27 | TCK | — | Not used |
| 28 | VCC | — | Power supply terminal (+5V) (digital system) |
| 29 | XRESET | — | Not used |
| 30 | TMS | — | Not used |
| 31 | $\overline{\text{RST DVD}}$ | O | Reset signal output to the SACD decoder "L": reset |
| 32 | $\overline{\text{RST CD}}$ | O | Reset signal output to the digital signal processor "L": reset |
| 33 | DVDPDSW | O | Photo diode for SACD on/off control signal output "L": photo diode on |
| 34 | MULTI | O | Multi/2ch selection signal output "L": 2ch, "H": multi |
| 35 | SDEN | O | Serial data enable signal output to SACD/CD RF amplifier |
| 36 | ISBTEST | O | Output terminal for disc inspection mode to DSD decoder |
| 37 | $\overline{\text{RMUTE}}$ | O | Front R-ch muting on/off control signal output "L": muting on |
| 38 | $\overline{\text{LMUTE}}$ | O | Front L-ch muting on/off control signal output "L": muting on |
| 39 | GND | — | Ground terminal (digital system) |
| 40 | GOE | — | Not used |
| 41 | ZEROR | I | R-ch zero data flag detection signal input from the digital filter |
| 42 | ZEROL | I | Front L-ch zero data flag detection signal input from the DSD decoder |
| 43 | ZEROR | I | Front R-ch zero data flag detection signal input from the DSD decoder |
| 44 | LIM SW | I | Detection signal input from limit in switch The optical pick-up is inner position when "H" |

# SECTION 6
# EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

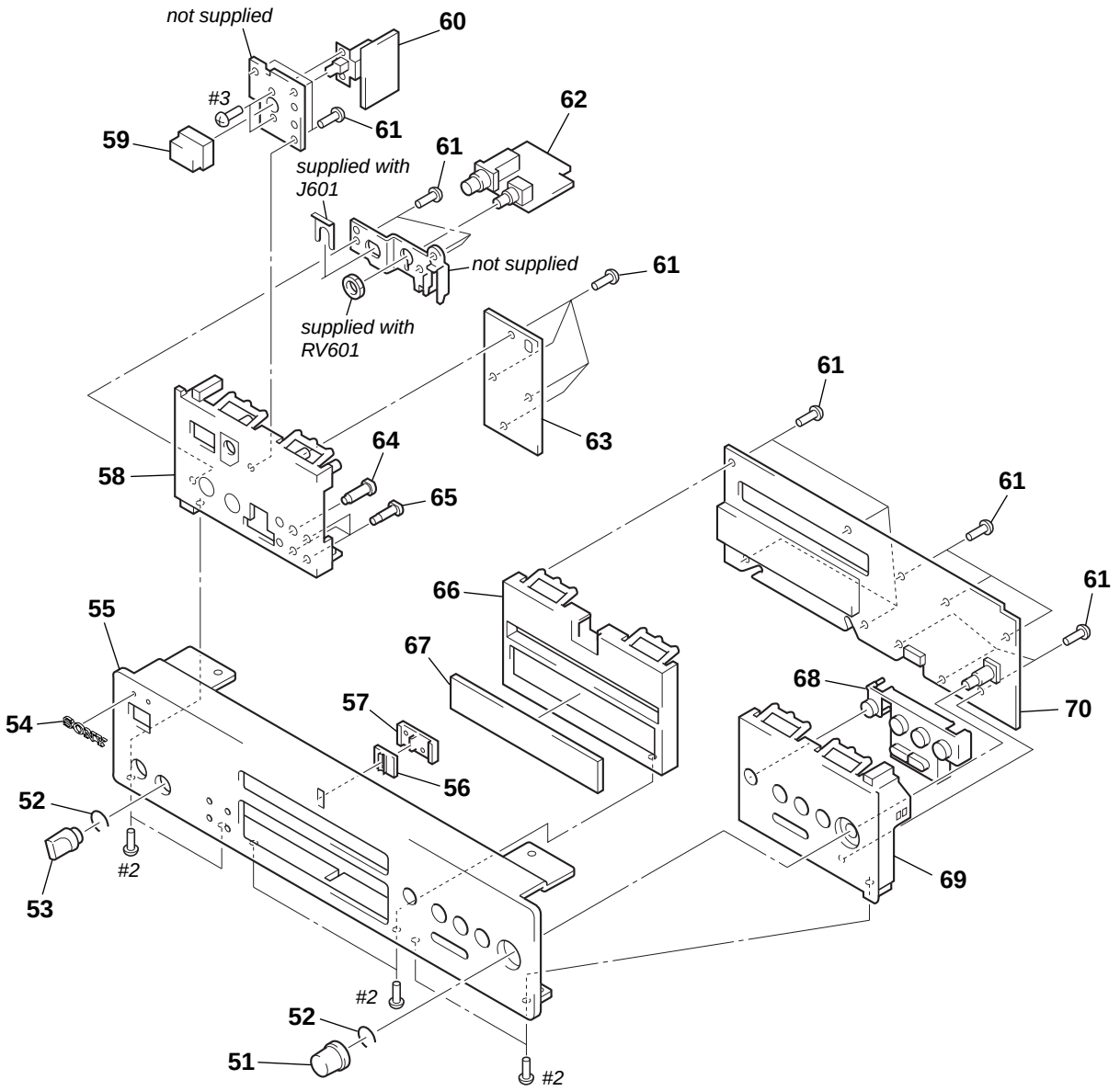
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

## 6-1. CASE SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-4953-532-1 | PANEL ASSY, LOADING (BLACK) | |
| 1 | X-4955-732-1 | PANEL ASSY, LOADING (SILVER) | |
| 2 | 3-704-515-31 | SCREW (BV/RING) | |
| 4 | X-4953-883-2 | FOOT ASSY | |
| 6 | 4-222-891-01 | SHEET | |
| 7 | 4-227-843-01 | SCREW (TP), FLAT HEAD (AEP: BLACK) | |
| 7 | 4-227-843-11 | SCREW (TP), FLAT HEAD (AEP: SILVER) | |
| 7 | 4-227-843-22 | SCREW (TP), FLAT HEAD (UK) | |
| 8 | 4-210-082-01 | SCREW (CASE) (UK) | |
| 8 | 4-210-291-01 | SCREW (CASE 3 TP2) (AEP: BLACK) | |
| 8 | 4-210-291-11 | SCREW (CASE 3 TP2) (AEP: SILVER) | |
| * 9 | 4-997-138-03 | CASE (409526) (BLACK) | |
| 9 | 4-997-138-61 | CASE (409526) (SILVER) | |
| 11 | 1-775-104-11 | WIRE (FLAT TYPE) (11 CORE) | |
| #1 | 7-685-885-09 | SCREW +BVTT 4X16 (S) | |

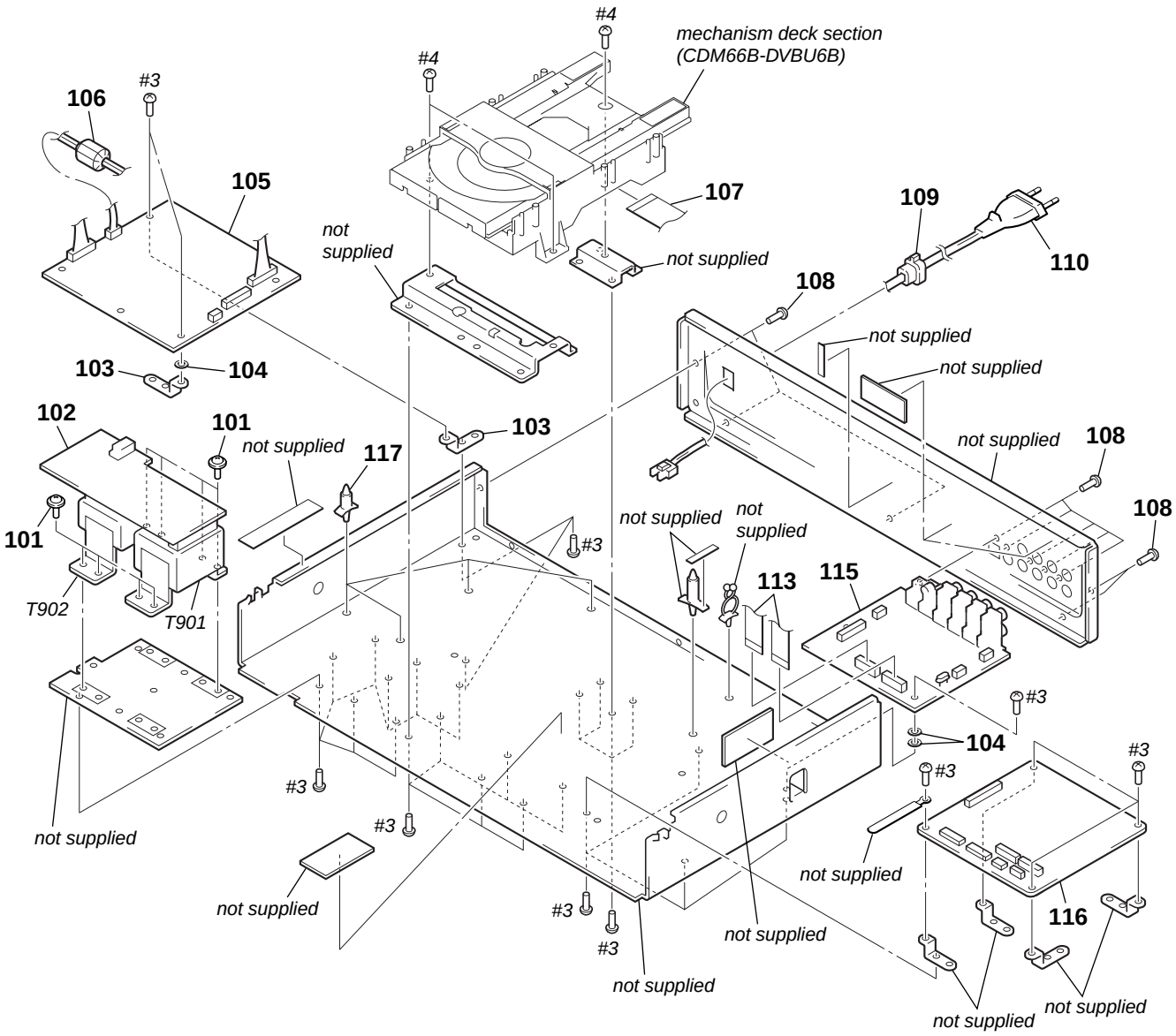
## 6-2. FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 4-232-622-01 | KNOB (AMS) (BLACK) | |
| 51 | 4-232-622-31 | KNOB (AMS) (SILVER) | |
| 52 | 3-354-981-11 | SPRING (SUS), RING | |
| 53 | 3-354-931-01 | KNOB (DIA. 10) (BLACK) | |
| 53 | 3-354-931-61 | KNOB (DIA. 10) (SILVER) | |
| 54 | 4-942-568-41 | EMBLEM (NO.5), SONY (BLACK) | |
| 54 | 4-942-568-61 | EMBLEM (NO.5), SONY (SILVER) | |
| 55 | 4-244-275-01 | PANEL, FRONT (BLACK) | |
| 55 | 4-244-275-12 | PANEL, FRONT (SILVER) | |
| 56 | 4-232-620-01 | INDICATOR (BASE) (BLACK) | |
| 56 | 4-232-620-31 | INDICATOR (BASE) (SILVER) | |
| 57 | 4-232-615-01 | INDICATOR | |
| 58 | 4-232-610-01 | BASE (R), PANEL (BLACK) | |
| 58 | 4-232-610-31 | BASE (R), PANEL (SILVER) | |
| 59 | 4-998-790-31 | KNOB, POWER (BLACK) | |
| 59 | 4-998-790-61 | KNOB, POWER (SILVER) | |
| 60 | 1-683-975-11 | POWER SW BOARD | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 61 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 62 | 1-683-978-11 | HP BOARD | |
| 63 | 1-683-977-11 | KEY BOARD | |
| 64 | 4-232-616-01 | BUTTON (TIME/TEXT) (BLACK) | |
| 64 | 4-232-616-31 | BUTTON (TIME/TEXT) (SILVER) | |
| 65 | 4-228-512-01 | BUTTON (SUB) (BLACK) | |
| 65 | 4-228-512-31 | BUTTON (SUB) (SILVER) | |
| 66 | 4-232-611-01 | BASE (M), PANEL (BLACK) | |
| 66 | 4-232-611-31 | BASE (M), PANEL (SILVER) | |
| 67 | 4-227-835-12 | PLATE, INDICATION | |
| 68 | 4-232-612-01 | BUTTON (PLAY) (BLACK) | |
| 68 | 4-232-612-31 | BUTTON (PLAY) (SILVER) | |
| 69 | 4-227-832-01 | BASE (L), PANEL (BLACK) | |
| 69 | 4-227-832-31 | BASE (L), PANEL (SILVER) | |
| 70 | A-4728-070-A | DISPLAY BOARD, COMPLETE | |
| #2 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| #3 | 7-685-871-01 | SCREW +BVTT 3X6 (S) | |

## 6-3. CHASSIS SECTION

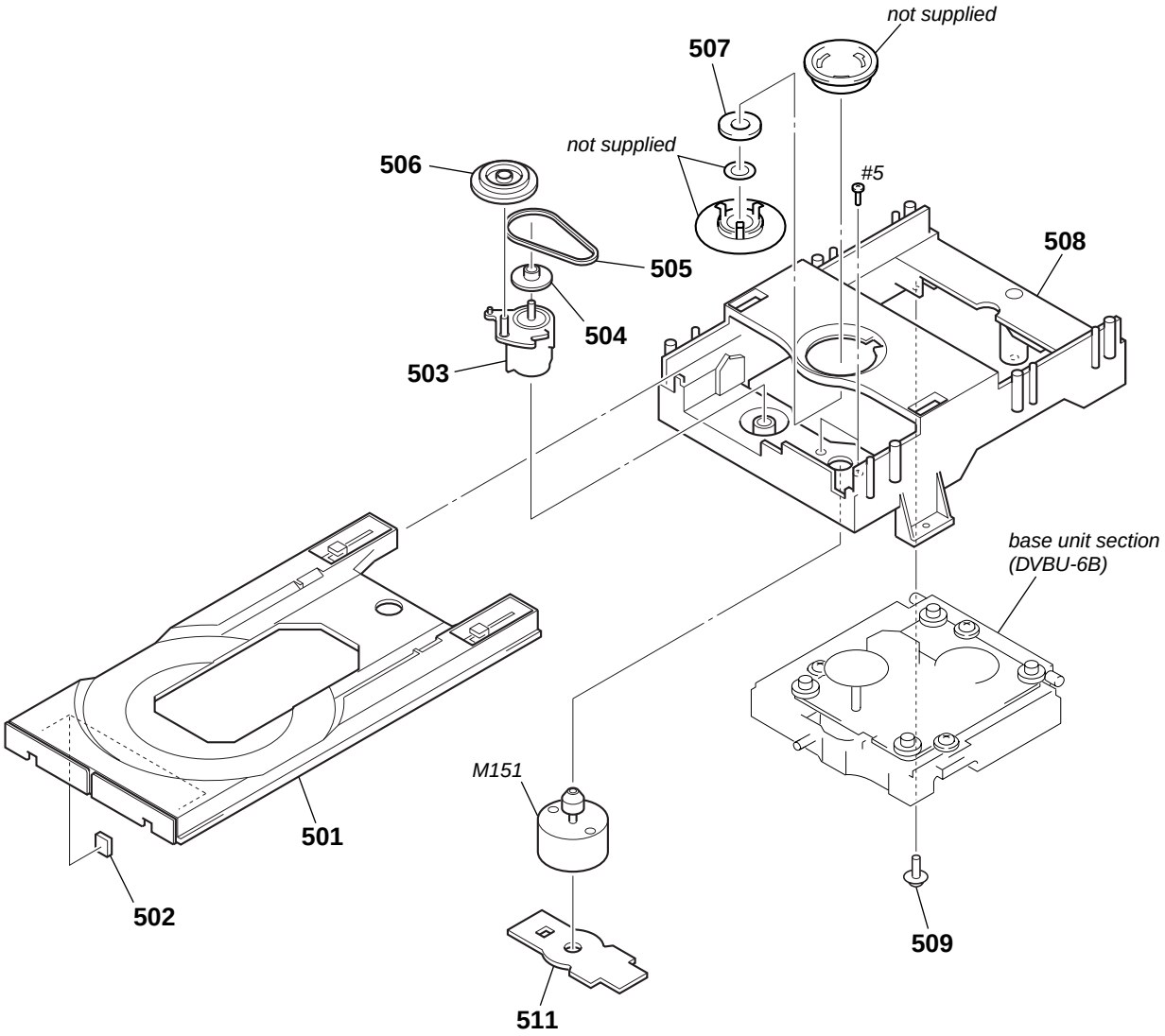



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | 3-703-249-01 | SCREW, S TIGHT, +PTTWH 3X6 | |
| 102 | 1-683-973-11 | PT BOARD | |
| 103 | 3-332-563-01 | BRACKET (P) | |
| 104 | 4-962-572-11 | WASHER, POLYETHYLENE, DIA. 3.2 | |
| 105 | A-4728-068-A | POWER BOARD, COMPLETE (AEP) | |
| 105 | A-4728-074-A | POWER BOARD, COMPLETE (UK) | |
| 106 | 1-500-249-11 | BEAD, FERRITE (CASE) | |
| 107 | 1-757-772-12 | WIRE (FLAT TYPE) (30 CORE) | |
| 108 | 3-704-515-21 | SCREW (BV/RING) | |
| 109 | 4-966-267-12 | BUSHING (FBS001), CORD | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| ⚠110 | 1-777-071-43 | CORD, POWER | |
| 113 | 1-775-172-11 | WIRE (FLAT TYPE) (19 CORE) | |
| 115 | A-4728-066-A | AUDIO BOARD, COMPLETE (AEP) | |
| 115 | A-4728-073-A | AUDIO BOARD, COMPLETE (UK) | |
| 116 | A-4728-065-A | MAIN BOARD, COMPLETE | |
| 117 | 4-973-980-21 | HOLDER, PC BOARD | |
| ⚠T901 | 1-435-971-11 | TRANSFORMER, POWER | |
| ⚠T902 | 1-435-969-11 | TRANSFORMER, POWER | |
| #3 | 7-685-871-01 | SCREW +BVTT 3X6 (S) | |
| #4 | 7-685-872-09 | SCREW +BVTT 3X8 (S) | |

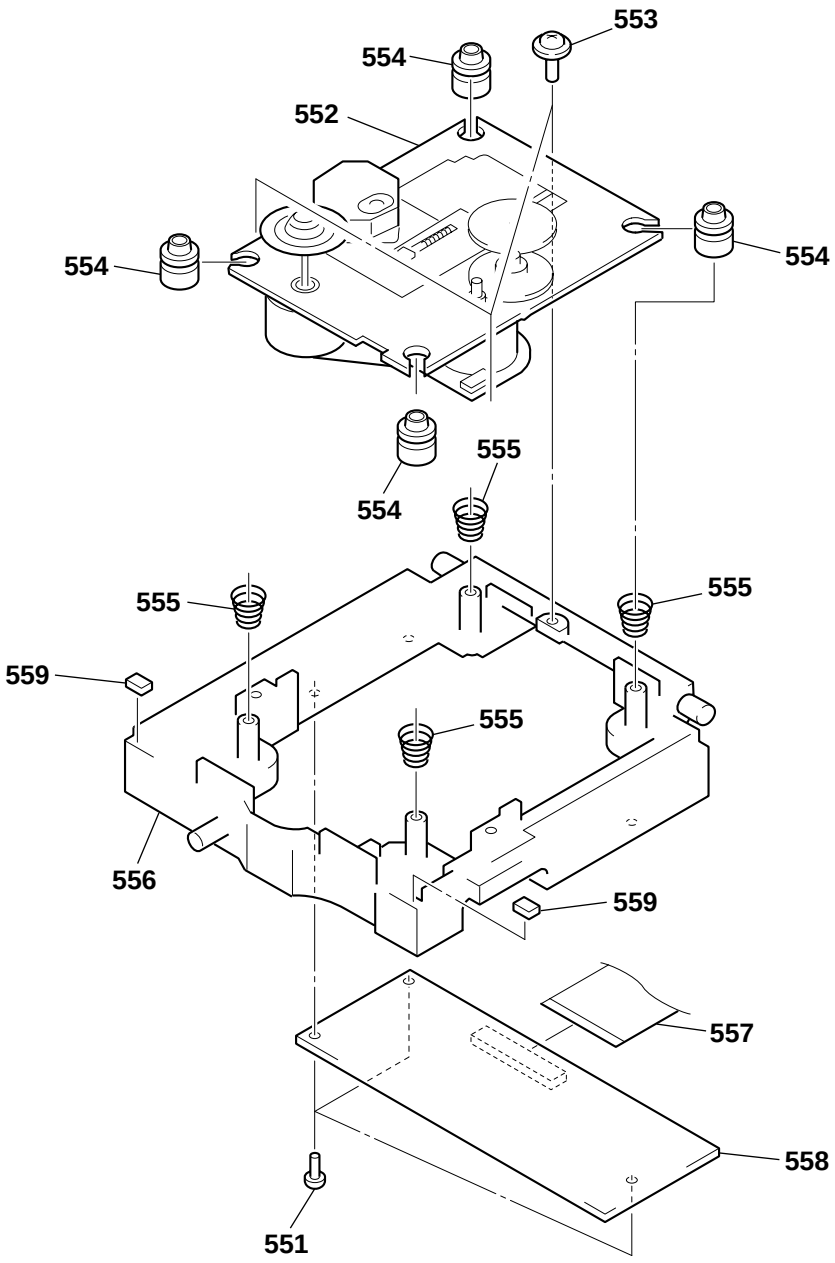
## 6-4. MECHANISM DECK SECTION (CDM66B-DVBU6B)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 501 | 4-231-530-05 | TRAY (66) | |
| 502 | 4-232-682-01 | CUSHION (66) | |
| 503 | 4-232-712-01 | CAM (66) | |
| 504 | 4-232-710-01 | PULLEY (LD) | |
| 505 | 4-232-713-01 | BELT (LD) | |
| 506 | 4-232-711-01 | GEAR (LD) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 507 | 3-053-844-01 | YOKE | |
| 508 | 4-231-529-04 | CHASSIS (66) | |
| 509 | 4-227-899-01 | SCREW (DIA. 12), FLOATING | |
| 511 | 1-645-721-11 | LOADING BOARD | |
| M151 | A-4604-363-A | MOTOR (L) ASSY (LOADING) | |
| #5 | 7-621-775-10 | SCREW +B 2.6X4 | |

## 6-5. BASE UNIT SECTION (DVBU-6B)




The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 551 | 4-218-253-21 | SCREW (M2.6), +BTTP | |
| ⚠552 | 8-820-176-03 | OPTICAL PICK-UP KHM-234AMA/J1RP | |
| 553 | 4-227-899-01 | SCREW (DIA. 12), FLOATING | |
| 554 | 4-227-549-11 | INSULATOR | |
| 555 | 4-232-627-01 | SPRING (230), CONE COIL | |
| 556 | 4-232-625-01 | HOLDER (230) | |
| 557 | 1-757-097-11 | WIRE (FLAT TYPE) (25 CORE) | |
| 558 | A-4728-128-A | RF BOARD, COMPLETE | |
| 559 | 4-232-682-01 | CUSHION (66) | |

# SECTION 7
# ELECTRICAL PARTS LIST

**AUDIO**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  KR : Korean model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | A-4728-066-A | AUDIO BOARD, COMPLETE (AEP) | | | |
| | A-4728-073-A | AUDIO BOARD, COMPLETE (UK) | | | |
| | | ********** | | | |
| | 4-211-300-01 | RING, RUBBER | | | |
| | | < CAPACITOR > | | | |
| C301 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C302 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C303 | 1-102-961-00 | CERAMIC | 27PF | 5% | 50V |
| C304 | 1-102-961-00 | CERAMIC | 27PF | 5% | 50V |
| C305 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C306 | 1-135-711-11 | ELECT | 470uF | | 16V |
| C307 | 1-135-711-11 | ELECT | 470uF | | 16V |
| C308 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C309 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C310 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C313 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C314 | 1-135-711-11 | ELECT | 470uF | | 16V |
| C315 | 1-135-680-11 | ELECT | 47uF | | 25V |
| C316 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C317 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C318 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C319 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C320 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C321 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C322 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C323 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C324 | 1-126-009-81 | ELECT | 100uF | 20% | 16V |
| C325 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C327 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C328 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C329 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C330 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C331 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C332 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C333 | 1-126-917-11 | ELECT | 3300uF | 20% | 6.3V |
| C334 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C335 | 1-126-024-11 | ELECT | 220uF | 20% | 16V |
| C336 | 1-126-009-11 | ELECT | 100uF | 20% | 16V |
| C337 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C338 | 1-135-711-11 | ELECT | 470uF | | 16V |
| C339 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C340 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C342 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C343 | 1-100-189-21 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C344 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C345 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C347 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C350 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C358 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C401 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C402 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C403 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C404 | 1-130-892-00 | FILM | 0.015uF | 5% | 63V |
| C405 | 1-109-857-11 | ELECT | 47uF | 20% | 63V |
| C406 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C407 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C408 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C409 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C410 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C411 | 1-162-910-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C412 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C415 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C421 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C422 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C423 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C424 | 1-130-892-00 | FILM | 0.015uF | 5% | 63V |
| C425 | 1-109-857-11 | ELECT | 47uF | 20% | 63V |
| C426 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C428 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C435 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C441 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C442 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C443 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C444 | 1-130-892-00 | FILM | 0.015uF | 5% | 63V |
| C445 | 1-109-857-11 | ELECT | 47uF | 20% | 63V |
| C446 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C448 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C455 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C491 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| C501 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C502 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C503 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C504 | 1-130-892-00 | FILM | 0.015uF | 5% | 63V |
| C505 | 1-109-857-11 | ELECT | 47uF | 20% | 63V |
| C506 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |

# AUDIO

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C507 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C508 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C509 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C510 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C511 | 1-162-910-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C512 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C521 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C522 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C523 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C524 | 1-130-892-00 | FILM | 0.015uF | 5% | 63V |
| C525 | 1-109-857-11 | ELECT | 47uF | 20% | 63V |
| C526 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C528 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C541 | 1-127-694-11 | ELECT | 47uF | 20% | 25V |
| C542 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C543 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C544 | 1-130-892-00 | FILM | 0.015uF | 5% | 63V |
| C545 | 1-109-857-11 | ELECT | 47uF | 20% | 63V |
| C546 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C548 | 1-136-356-11 | FILM | 470PF | 5% | 100V |
| C591 | 1-128-197-11 | ELECT | 10uF | 20% | 63V |
| | | < CONNECTOR > | | | |
| CN301 | 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN302 | 1-779-287-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 19P | | | |
| CN303 | 1-779-287-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 19P | | | |
| * CN304 | 1-506-468-11 | PIN, CONNECTOR 3P | | | |
| CN305 | 1-506-468-11 | PIN, CONNECTOR 3P | | | |
| CN306 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| | | < DIODE > | | | |
| D301 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D302 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D308 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D311 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D312 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D313 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| | | < IC > | | | |
| IC301 | 6-701-996-01 | IC CXD9709Q | | | |
| IC302 | 8-759-445-59 | IC BA033T | | | |
| IC304 | 8-759-549-25 | IC SN74LVU04APWR | | | |
| IC305 | 8-759-447-30 | IC NJM2114M-TE2 | | | |
| IC306 | 8-759-447-30 | IC NJM2114M-TE2 | | | |
| IC307 | 8-759-447-30 | IC NJM2114M-TE2 | | | |
| IC308 | 8-759-711-85 | IC NJM4580E-D | | | |
| IC309 | 6-600-005-01 | IC GP1FA351TZ (DIGITAL (CD) OUT OPTICAL) | | | |
| IC315 | 8-759-447-30 | IC NJM2114M-TE2 | | | |
| | | < JACK > | | | |
| J301 | 1-785-868-21 | JACK, PIN 2P (ANALOG 2CH OUT) | | | |
| J302 | 1-785-489-11 | JACK, PIN 6P (ANALOG 5.1CH OUT FRONT/SURR/CENTER/SUB WOOFER) | | | |
| J303 | 1-770-905-21 | JACK, PIN 1P (DIGITAL (CD) OUT COAXIALL) | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < RESISTOR/COIL > | | | |
| L301 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L302 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L303 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L304 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L305 | 1-414-229-11 | FERRITE | 0uH | | |
| L307 | 1-414-180-11 | INDUCTOR | 3.3uH | | |
| L308 | 1-414-180-11 | INDUCTOR | 3.3uH | | |
| L309 | 1-414-553-11 | FERRITE | 0uH | | |
| L310 | 1-424-122-11 | FILTER, NOISE | | | |
| L311 | 1-414-180-11 | INDUCTOR | 3.3uH | | |
| L401 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L402 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L403 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L404 | 1-414-229-11 | FERRITE | 0uH | | |
| L501 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L502 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L503 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| L504 | 1-414-229-11 | FERRITE | 0uH | | |
| | | < TRANSISTOR > | | | |
| Q301 | 8-729-027-35 | TRANSISTOR | DTA143TKA-T146 | | |
| Q302 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 | | |
| Q303 | 8-729-027-35 | TRANSISTOR | DTA143TKA-T146 | | |
| Q304 | 8-729-027-35 | TRANSISTOR | DTA143TKA-T146 | | |
| Q401 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q402 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q403 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q421 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q422 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q441 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q442 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q501 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q502 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q503 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q521 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q522 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q541 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| Q542 | 8-729-422-35 | TRANSISTOR | 2SD601A-S-TX | | |
| | | < RESISTOR > | | | |
| R301 | 1-216-789-11 | METAL CHIP | 2.2 | 5% | 1/10W |
| R302 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R303 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R304 | 1-216-864-11 | SHORT CHIP | 0 | 5% | 1/10W |
| R305 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R306 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/10W |
| R307 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R308 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R309 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R310 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R311 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R313 | 1-216-864-11 | METAL CHIP | 0 | | |
| R314 | 1-216-864-11 | METAL CHIP | 0 | | |
| R315 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R316 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R317 | 1-216-824-11 | METAL CHIP | 1.8K | 5% | 1/10W |

## AUDIO

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R318 | 1-216-824-11 | METAL CHIP | 1.8K | 5% | 1/10W |
| R319 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R320 | 1-216-807-11 | METAL CHIP | 68 | 5% | 1/10W |
| R321 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R323 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R324 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R325 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R329 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R331 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R332 | 1-216-789-11 | METAL CHIP | 2.2 | 5% | 1/10W |
| R341 | 1-216-789-11 | METAL CHIP | 2.2 | 5% | 1/10W |
| R401 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R402 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R403 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R404 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R405 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R406 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W |
| R407 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R408 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R409 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R410 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R411 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R412 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R413 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R414 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R415 | 1-216-848-11 | METAL CHIP | 180K | 5% | 1/10W |
| R416 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/10W |
| R417 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R418 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R419 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R421 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R422 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R423 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R424 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R425 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R426 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W |
| R427 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R428 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R429 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R430 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R431 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R441 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R442 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R443 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R444 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R445 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R446 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W |
| R447 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R448 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R449 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R450 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R451 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R461 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R471 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R481 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R491 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R492 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R493 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R494 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R501 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R502 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R503 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R504 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R505 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R506 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W |
| R507 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R508 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R509 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R510 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R511 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R512 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R513 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R514 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R515 | 1-216-848-11 | METAL CHIP | 180K | 5% | 1/10W |
| R516 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/10W |
| R517 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R518 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R519 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R521 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R522 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R523 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R524 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R525 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R526 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W |
| R527 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R528 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R529 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R530 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R531 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R541 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R542 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R543 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R544 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R545 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R546 | 1-260-020-11 | CARBON MELF | 100K | 2% | 1/8W |
| R547 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R548 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| R549 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R550 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| R551 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R561 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R571 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R581 | 1-259-999-11 | CARBON MELF | 2.2K | 2% | 1/8W |
| R591 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R592 | 1-260-008-11 | CARBON MELF | 10K | 2% | 1/8W |
| R593 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| R594 | 1-260-004-11 | CARBON MELF | 4.7K | 2% | 1/8W |
| | | < VIBRATOR > | | | |
| X301 | 1-767-406-21 | VIBRATOR, CRYSTAL (11.2896MHz) | | | |

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**DISPLAY** **HP** **KEY**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | A-4728-070-A | DISPLAY BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 2-389-320-01 | CUSHION | | | |
| * | 4-996-686-03 | HOLDER (FL) | | | |
| | | < CAPACITOR > | | | |
| C801 | 1-131-992-11 | CERAMIC CHIP | 100000PF | | 35V |
| C802 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C803 | 1-131-992-11 | CERAMIC CHIP | 100000PF | | 35V |
| C810 | 1-131-992-11 | CERAMIC CHIP | 100000PF | | 35V |
| C811 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C813 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C814 | 1-164-361-11 | CERAMIC CHIP | 0.047uF | | 16V |
| C815 | 1-162-949-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C820 | 1-131-992-11 | CERAMIC CHIP | 100000PF | | 35V |
| C832 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C851 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| | | < CONNECTOR > | | | |
| CN801 | 1-779-548-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 11P | | | |
| | | < LED > | | | |
| D803 | 8-719-084-07 | LED SEL5E20CTP15 (MULTI-CHANNEL) | | | |
| | | < FLUORESCENT INDICATOR TUBE > | | | |
| FL801 | 1-518-749-21 | INDICATOR TUBE, FLUORESCENT | | | |
| | | < IC > | | | |
| IC801 | 8-759-829-13 | IC MSM9202-06GS-BK | | | |
| IC802 | 8-759-826-34 | IC NJL74H400A (REMOTE CONTROL RECEIVER) | | | |
| | | < LEAD > | | | |
| NO810 | 1-775-377-21 | LEAD (WITH CONNECTOR) | | | |
| | | < TRANSISTOR > | | | |
| Q801 | 8-729-900-53 | TRANSISTOR | DTC114EK | | |
| Q802 | 8-729-900-53 | TRANSISTOR | DTC114EK | | |
| Q803 | 8-729-900-53 | TRANSISTOR | DTC114EK | | |
| | | < RESISTOR > | | | |
| R801 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R802 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R803 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R804 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R805 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R806 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R807 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R808 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R810 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R811 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R812 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R813 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R814 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R815 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R818 | 1-216-807-11 | METAL CHIP | 68 | 5% | 1/10W |
| R819 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R827 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R830 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R851 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R852 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | | < SWITCH/ROTARY ENCODER > | | | |
| S801 | 1-762-875-21 | SWITCH, KEYBOARD (⏮) | | | |
| S802 | 1-762-875-21 | SWITCH, KEYBOARD (⏭) | | | |
| S803 | 1-762-875-21 | SWITCH, KEYBOARD (OPEN/CLOSE ⏏) | | | |
| S804 | 1-762-875-21 | SWITCH, KEYBOARD (▷) | | | |
| S805 | 1-762-875-21 | SWITCH, KEYBOARD (⏸) | | | |
| S806 | 1-762-875-21 | SWITCH, KEYBOARD (■) | | | |
| S830 | 1-475-543-11 | ENCODER, ROTARY (⏮⏭ AMS ⏭⏯, PUSH ENTER) | | | |
| ********** | | | | | |
| | 1-683-978-11 | HP BOARD | | | |
| | | ********* | | | |
| | | < CAPACITOR > | | | |
| C601 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C603 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C604 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| | | < JACK > | | | |
| J601 | 1-770-307-11 | JACK (LARGE TYPE) (PHONES) | | | |
| | | < COIL/SHORT > | | | |
| L601 | 1-424-122-11 | FILTER, NOISE | | | |
| L602 | 1-424-122-11 | FILTER, NOISE | | | |
| L603 | 1-424-122-11 | FILTER, NOISE | | | |
| L605 | 1-216-864-11 | SHORT CHIP | 0 | | |
| L606 | 1-216-864-11 | SHORT CHIP | 0 | | |
| L607 | 1-216-864-11 | SHORT CHIP | 0 | | |
| L608 | 1-414-180-11 | INDUCTOR | 3.3uH | | |
| L609 | 1-414-180-11 | INDUCTOR | 3.3uH | | |
| L610 | 1-414-180-11 | INDUCTOR | 3.3uH | | |
| | | < VARIABLE RESISTOR > | | | |
| RV601 | 1-227-185-11 | RES, VAR, CARBON 1K/1K (PHONE LEVEL) | | | |
| ********** | | | | | |
| | 1-683-977-11 | KEY BOARD | | | |
| | | ********** | | | |
| | | < RESISTOR > | | | |
| R820 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R821 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R822 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | | < SWITCH > | | | |
| S810 | 1-762-875-21 | SWITCH, KEYBOARD (MULTI/2CH) | | | |
| S811 | 1-762-875-21 | SWITCH, KEYBOARD (MENU) | | | |
| S812 | 1-762-875-21 | SWITCH, KEYBOARD (TIME/TEXT) | | | |
| S813 | 1-762-875-21 | SWITCH, KEYBOARD (SACD/CD) | | | |
| ********** | | | | | |

## LOADING | MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | 1-645-721-11 | LOADING BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| * CN151 | 1-568-943-11 | PIN, CONNECTOR 5P | | | |
| | | < SWITCH > | | | |
| S271 | 1-572-086-11 | SWITCH, LEAF (LOADING OUT) | | | |
| S272 | 1-572-086-11 | SWITCH, LEAF (LOADING IN) | | | |
| ********** | | | | | |
| | A-4728-065-A | MAIN BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C501 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C502 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C506 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C509 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C510 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C511 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C513 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C516 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C517 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C518 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C519 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C520 | 1-126-395-11 | ELECT | 22uF | 20% | 16V |
| C521 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V |
| C523 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V |
| C525 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C526 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C527 | 1-164-739-11 | CERAMIC CHIP | 560PF | 5% | 50V |
| C528 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C529 | 1-164-739-11 | CERAMIC CHIP | 560PF | 5% | 50V |
| C530 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C531 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C532 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C533 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C534 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C535 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C536 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C539 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C541 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C542 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C543 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C544 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C545 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C547 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C548 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C549 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C550 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V |
| C551 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C553 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C554 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C555 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V |
| C556 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C558 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V |
| C559 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C560 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V |
| C561 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C562 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V |
| C563 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C565 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C567 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C568 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C569 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C570 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C572 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C577 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C579 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C582 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C583 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C584 | 1-126-395-11 | ELECT | 22uF | 20% | 16V |
| C587 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C588 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C589 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C590 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C591 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C592 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C701 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C702 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C703 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C704 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C705 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C706 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C707 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C708 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C709 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C711 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C712 | 1-164-816-11 | CERAMIC CHIP | 220PF | 2% | 50V |
| C713 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C714 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C715 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C716 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C717 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C718 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C720 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C721 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C722 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C723 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C724 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C725 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C726 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C727 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C728 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C729 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C730 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C731 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C740 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C741 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C742 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C743 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C744 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C745 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C746 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C747 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C752 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C760 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C761 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C762 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C763 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C764 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C765 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C766 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C767 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C768 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C769 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C770 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C771 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C772 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C773 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C774 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C775 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C776 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C777 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C778 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C779 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C780 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C781 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C790 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| C791 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C792 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C793 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V |
| C794 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V |
| C795 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C796 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C797 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V |
| C798 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C799 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C800 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C802 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C803 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C804 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C807 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C808 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C809 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C810 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C811 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C812 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C813 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C815 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C817 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C818 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C819 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C837 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C838 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C839 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C840 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C841 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C842 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C843 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C846 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C847 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C848 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C849 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C850 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C851 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C852 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C854 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C855 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C856 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C857 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C858 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C860 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C861 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C865 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C866 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C867 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C870 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C871 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C901 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C902 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C903 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C904 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C905 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C906 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C907 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C908 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C909 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C910 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C911 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C912 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C913 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C914 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C915 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C916 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C917 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C918 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C920 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C921 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C923 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C924 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C937 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C938 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C939 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C941 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C942 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C945 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C946 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C948 | 1-107-682-11 | CERAMIC CHIP | 1uF | 10% | 16V |
| C949 | 1-107-682-11 | CERAMIC CHIP | 1uF | 10% | 16V |
| C951 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C952 | 1-107-682-11 | CERAMIC CHIP | 1uF | 10% | 16V |
| C953 | 1-107-682-11 | CERAMIC CHIP | 1uF | 10% | 16V |

< CONNECTOR >

| | | |
|---|---|---|
| CN701 | 1-778-691-11 | CONNECTOR, FFC/FPC 19P |
| CN702 | 1-778-691-11 | CONNECTOR, FFC/FPC 19P |
| CN703 | 1-793-687-11 | PIN, CONNECTOR (1.5mm) (SMD) 5P |
| CN704 | 1-816-357-11 | PIN, CONNECTOR (PC BOARD) 3P |
| CN706 | 1-784-370-21 | CONNECTOR, FFC/FPC 11P |

## MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| CN707 | 1-816-358-11 | PIN, CONNECTOR (PC BOARD) 10P | |
| CN708 | 1-784-386-21 | CONNECTOR, FFC/FPC 30P | |
| | | < DIODE > | |
| D903 | 8-719-049-09 | DIODE 1SS367-T3SONY | |
| D904 | 8-719-049-09 | DIODE 1SS367-T3SONY | |
| | | < FERRITE BEAD > | |
| FB701 | 1-469-835-21 | FERRITE 0uH | |
| FB703 | 1-500-283-11 | FERRITE 0uH | |
| FB704 | 1-500-283-11 | FERRITE 0uH | |
| FB705 | 1-469-835-21 | FERRITE 0uH | |
| FB706 | 1-469-835-21 | FERRITE 0uH | |
| FB707 | 1-500-283-11 | FERRITE 0uH | |
| FB708 | 1-500-283-11 | FERRITE 0uH | |
| FB709 | 1-500-283-11 | FERRITE 0uH | |
| FB710 | 1-500-283-11 | FERRITE 0uH | |
| FB751 | 1-500-283-11 | FERRITE 0uH | |
| FB752 | 1-500-283-11 | FERRITE 0uH | |
| FB753 | 1-500-283-11 | FERRITE 0uH | |
| FB754 | 1-500-283-11 | FERRITE 0uH | |
| FB755 | 1-500-283-11 | FERRITE 0uH | |
| FB756 | 1-500-283-11 | FERRITE 0uH | |
| FB757 | 1-500-283-11 | FERRITE 0uH | |
| FB758 | 1-469-835-21 | FERRITE 0uH | |
| FB759 | 1-469-835-21 | FERRITE 0uH | |
| FB760 | 1-469-835-21 | FERRITE 0uH | |
| FB761 | 1-469-835-21 | FERRITE 0uH | |
| FB801 | 1-500-283-11 | FERRITE 0uH | |
| FB802 | 1-500-283-11 | FERRITE 0uH | |
| FB803 | 1-500-283-11 | FERRITE 0uH | |
| | | < FILTER > | |
| FL501 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL502 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL701 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL702 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL703 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL704 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL705 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL706 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL750 | 1-233-893-21 | FILTER, CHIP EMI | |
| FL751 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL752 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL753 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL754 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL807 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL808 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL810 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL811 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL812 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL813 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL901 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL904 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL905 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL906 | 1-234-177-21 | FILTER, CHIP EMI | |
| FL908 | 1-234-177-21 | FILTER, CHIP EMI | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < IC > | |
| IC501 | 8-759-082-60 | IC TC7S66FU | |
| IC502 | 8-759-567-26 | IC BA5983FP-E2 | |
| IC503 | 8-759-701-40 | IC NJM3404AM-T1 | |
| IC504 | 8-759-473-95 | IC uPC2905T-E1 | |
| IC505 | 8-759-082-60 | IC TC7S66FU | |
| IC509 | 8-752-408-73 | IC CXD3068Q | |
| IC512 | 8-759-490-71 | IC BA5912AFP-YE2 | |
| IC701 | 8-752-414-94 | IC CXD1882R-1 | |
| IC702 | 8-759-637-50 | IC TA48M025F (TE16L) | |
| IC703 | 8-759-701-40 | IC NJM3404AM-T1 | |
| IC706 | 8-759-543-83 | IC KM416V12040CT-L6 | |
| IC708 | 8-759-701-40 | IC NJM3404AM-T1 | |
| IC801 | 8-752-416-77 | IC CXD2753R | |
| IC808 | 8-759-676-70 | IC MSM56V16160F-10TS-K | |
| IC811 | 8-759-549-25 | IC SN74LVU04APWR | |
| IC812 | 8-759-549-15 | IC SN74LV245APWR | |
| IC813 | 8-759-549-15 | IC SN74LV245APWR | |
| IC814 | 8-759-649-33 | IC SN74AHCT1G08DCKR | |
| IC901 | 8-752-937-37 | IC CXP973064-227R | |
| IC903 | 8-759-487-04 | IC S-24C02AFJA-TB-01 | |
| IC904 | 6-801-325-01 | IC ISPLSI2032VE-110LT44-SA | |
| IC905 | 8-759-636-64 | IC M51957BFP-600C | |
| | | < COIL > | |
| L801 | 1-410-369-11 | INDUCTOR CHIP 1uH | |
| L802 | 1-410-369-11 | INDUCTOR CHIP 1uH | |
| L803 | 1-410-369-11 | INDUCTOR CHIP 1uH | |
| | | < TRANSISTOR > | |
| Q701 | 1-801-806-11 | TRANSISTOR DTC144EK | |
| Q702 | 8-729-901-47 | TRANSISTOR DTA143EK | |
| | | < RESISTOR > | |
| R501 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| R502 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| R503 | 1-216-864-11 | SHORT CHIP 0 | |
| R505 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R506 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/10W | |
| R507 | 1-216-827-11 | METAL CHIP 3.3K 5% 1/10W | |
| R508 | 1-216-827-11 | METAL CHIP 3.3K 5% 1/10W | |
| R509 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| R512 | 1-216-864-11 | SHORT CHIP 0 | |
| R513 | 1-216-797-11 | METAL CHIP 10 5% 1/10W | |
| R515 | 1-216-864-11 | SHORT CHIP 0 | |
| R516 | 1-216-797-11 | METAL CHIP 10 5% 1/10W | |
| R518 | 1-216-797-11 | METAL CHIP 10 5% 1/10W | |
| R522 | 1-216-864-11 | SHORT CHIP 0 | |
| R523 | 1-216-797-11 | METAL CHIP 10 5% 1/10W | |
| R524 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| R529 | 1-218-748-11 | METAL CHIP 220K 0.5% 1/16W | |
| R530 | 1-218-748-11 | METAL CHIP 220K 0.5% 1/16W | |
| R534 | 1-218-704-11 | METAL CHIP 3.3K 0.5% 1/16W | |
| R538 | 1-218-740-11 | METAL CHIP 100K 0.5% 1/16W | |
| R540 | 1-216-833-11 | METAL CHIP 10K 5% 1/10W | |
| R541 | 1-218-740-11 | METAL CHIP 100K 0.5% 1/16W | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R544 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R545 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R549 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R554 | 1-216-826-11 | METAL CHIP | 2.7K | 5% | 1/10W |
| R555 | 1-218-704-11 | METAL CHIP | 3.3K | 0.5% | 1/16W |
| R556 | 1-216-826-11 | METAL CHIP | 2.7K | 5% | 1/10W |
| R558 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R559 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R560 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R561 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R562 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R563 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R565 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R568 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R572 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R573 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R576 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R577 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R578 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R581 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R582 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R584 | 1-218-728-11 | METAL CHIP | 33K | 0.5% | 1/16W |
| R588 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R589 | 1-218-728-11 | METAL CHIP | 33K | 0.5% | 1/16W |
| R590 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R591 | 1-218-702-11 | METAL CHIP | 2.7K | 0.5% | 1/16W |
| R592 | 1-218-708-11 | METAL CHIP | 4.7K | 0.5% | 1/16W |
| R593 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R594 | 1-218-728-11 | METAL CHIP | 33K | 0.5% | 1/16W |
| R595 | 1-218-708-11 | METAL CHIP | 4.7K | 0.5% | 1/16W |
| R597 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R599 | 1-218-702-11 | METAL CHIP | 2.7K | 0.5% | 1/16W |
| R601 | 1-218-724-11 | METAL CHIP | 22K | 0.5% | 1/16W |
| R602 | 1-218-708-11 | METAL CHIP | 4.7K | 0.5% | 1/16W |
| R603 | 1-218-704-11 | METAL CHIP | 3.3K | 0.5% | 1/16W |
| R604 | 1-218-692-11 | METAL CHIP | 1K | 0.5% | 1/16W |
| R606 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R607 | 1-218-708-11 | METAL CHIP | 4.7K | 0.5% | 1/16W |
| R608 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R611 | 1-218-724-11 | METAL CHIP | 22K | 0.5% | 1/16W |
| R613 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R617 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R618 | 1-218-911-11 | METAL CHIP | 470K | 0.5% | 1/10W |
| R619 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R621 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R625 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R626 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R627 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R628 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R632 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R634 | 1-218-867-11 | RES-CHIP | 6.8K | 5% | 1/10W |
| R642 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R644 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R645 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R654 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R655 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R656 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R657 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R658 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R659 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R660 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R661 | 1-216-296-11 | SHORT CHIP | 0 | | |
| R701 | 1-218-748-11 | METAL CHIP | 220K | 0.5% | 1/16W |
| R702 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R703 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R704 | 1-218-748-11 | METAL CHIP | 220K | 0.5% | 1/16W |
| R705 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R706 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R707 | 1-218-668-11 | METAL CHIP | 100 | 0.5% | 1/16W |
| R708 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R709 | 1-218-736-11 | METAL CHIP | 68K | 0.5% | 1/16W |
| R710 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R711 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R712 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R713 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R714 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R716 | 1-218-668-11 | METAL CHIP | 100 | 0.5% | 1/16W |
| R717 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R718 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R719 | 1-218-692-11 | METAL CHIP | 1K | 0.5% | 1/16W |
| R720 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R721 | 1-218-728-11 | METAL CHIP | 33K | 0.5% | 1/16W |
| R724 | 1-218-692-11 | METAL CHIP | 1K | 0.5% | 1/16W |
| R725 | 1-216-824-11 | METAL CHIP | 1.8K | 5% | 1/10W |
| R726 | 1-218-728-11 | METAL CHIP | 33K | 0.5% | 1/16W |
| R727 | 1-218-704-11 | METAL CHIP | 3.3K | 0.5% | 1/16W |
| R728 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R729 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R730 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R731 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R732 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R733 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R734 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R735 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R736 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R737 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R738 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R740 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R741 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R742 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R743 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R744 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R745 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R746 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R750 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R755 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R756 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R757 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R758 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R759 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R761 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R762 | 1-218-724-11 | METAL CHIP | 22K | 0.5% | 1/16W |
| R763 | 1-218-714-11 | METAL CHIP | 8.2K | 0.5% | 1/16W |
| R764 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R765 | 1-218-724-11 | METAL CHIP | 22K | 0.5% | 1/16W |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R766 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R767 | 1-218-732-11 | METAL CHIP | 47K | 0.5% | 1/16W |
| R768 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R769 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R770 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R772 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R776 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R777 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R778 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R780 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R781 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R800 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R804 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R805 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R806 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R807 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R809 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R810 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R820 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W |
| R821 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R822 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R824 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R826 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R827 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R828 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R829 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R830 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R831 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R839 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R847 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R848 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R849 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R850 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R851 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R852 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R853 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R854 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R855 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R858 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R859 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R860 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R865 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R866 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R867 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R870 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R882 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R883 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R884 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R885 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R886 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R887 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R888 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R889 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R901 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R902 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R903 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R904 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R905 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R906 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R907 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R908 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R909 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R910 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R911 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R912 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R913 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R914 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R915 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R916 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R917 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R918 | 1-216-789-11 | METAL CHIP | 2.2 | 5% | 1/10W |
| R919 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R920 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R921 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R922 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R923 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R925 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R926 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R928 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R929 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R930 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R931 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R932 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R933 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R935 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R936 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R937 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R938 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R939 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R940 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R941 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R942 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R943 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R944 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R945 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R946 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R947 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R948 | 1-218-720-11 | METAL CHIP | 15K | 0.5% | 1/16W |
| R949 | 1-218-720-11 | METAL CHIP | 15K | 0.5% | 1/16W |
| R950 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R951 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R952 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R953 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R954 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R955 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R956 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R957 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R959 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R960 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R961 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R962 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R964 | 1-218-692-11 | METAL CHIP | 1K | 0.5% | 1/16W |
| R965 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R966 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R967 | 1-216-864-11 | SHORT CHIP | 0 | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R968 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R969 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R970 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R971 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R973 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R974 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R975 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R976 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R977 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R979 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R980 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R981 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R982 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R983 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R985 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R986 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R987 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R988 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R989 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R991 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R992 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R993 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R994 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R995 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R996 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R997 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R998 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R999 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1000 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1001 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1002 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1003 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1007 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1009 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1010 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1011 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1013 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1014 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1015 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R1018 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R1019 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1020 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1021 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1022 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R1023 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1024 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1025 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1026 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1027 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W |
| R1028 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1029 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R1030 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1032 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | | < VIBRATOR > | | | |
| X901 | 1-781-945-21 | VIBRATOR, CERAMIC (20MHz) | | | |

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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | A-4728-068-A | POWER BOARD, COMPLETE (AEP) | | | |
| | A-4728-074-A | POWER BOARD, COMPLETE (UK) | | | |
| | | ********** | | | |
| * | 3-309-144-21 | HEAT SINK | | | |
| | 7-685-871-01 | SCREW +BVTT 3X6 (S) | | | |
| | | < CAPACITOR > | | | |
| C901 | 1-119-806-21 | ELECT | 3300uF | 20% | 25V |
| C902 | 1-119-805-21 | ELECT | 2200uF | 20% | 25V |
| C903 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V |
| C904 | 1-126-939-11 | ELECT | 10000uF | 20% | 16V |
| C905 | 1-111-235-61 | ELECT | 10000uF | 20% | 25V |
| C906 | 1-126-065-11 | ELECT | 330uF | 20% | 63V |
| C907 | 1-126-064-11 | ELECT | 220uF | 20% | 63V |
| C910 | 1-136-850-11 | MYLAR | 0.1uF | 5% | 63V |
| C911 | 1-128-204-11 | ELECT | 470uF | 20% | 63V |
| C912 | 1-128-204-11 | ELECT | 470uF | 20% | 63V |
| C914 | 1-126-919-11 | ELECT | 6800uF | 20% | 6.3V |
| C915 | 1-126-937-11 | ELECT | 4700uF | 20% | 16V |
| C916 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C917 | 1-136-850-11 | MYLAR | 0.1uF | 5% | 63V |
| C919 | 1-128-204-11 | ELECT | 470uF | 20% | 63V |
| C921 | 1-137-352-11 | MYLAR | 0.033uF | 5% | 100V |
| C922 | 1-137-352-11 | MYLAR | 0.033uF | 5% | 100V |
| C923 | 1-136-850-11 | MYLAR | 0.1uF | 5% | 63V |
| C924 | 1-119-786-21 | ELECT | 6800uF | 20% | 10V |
| C926 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C927 | 1-164-676-11 | CERAMIC CHIP | 2200PF | 5% | 16V |
| C929 | 1-104-665-11 | ELECT | 100uF | 20% | 25V |
| C930 | 1-164-676-11 | CERAMIC CHIP | 2200PF | 5% | 16V |
| C945 | 1-164-676-11 | CERAMIC CHIP | 2200PF | 5% | 16V |
| C971 | 1-136-820-11 | FILM | 0.01uF | 5% | 100V |
| C974 | 1-136-850-11 | MYLAR | 0.1uF | 5% | 63V |
| C975 | 1-136-850-11 | MYLAR | 0.1uF | 5% | 63V |
| C976 | 1-131-688-31 | FILM | 0.047uF | 5% | 50V |
| C977 | 1-136-850-11 | MYLAR | 0.1uF | 5% | 63V |
| C978 | 1-136-850-11 | MYLAR | 0.1uF | 5% | 63V |
| C991 | 1-130-471-00 | MYLAR | 0.001uF | 5% | 50V |
| C993 | 1-130-471-00 | MYLAR | 0.001uF | 5% | 50V |
| | | < CONNECTOR > | | | |
| * CN904 | 1-568-937-11 | PIN, CONNECTOR 10P | | | |
| * CN905 | 1-568-954-11 | PIN, CONNECTOR 5P | | | |
| | | < DIODE > | | | |
| D901 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D902 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D903 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D904 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D905 | 8-719-016-74 | DIODE 1SS352 | | | |
| D906 | 8-719-016-74 | DIODE 1SS352 | | | |
| D907 | 8-719-036-70 | DIODE RD2.7SB2-T1 | | | |
| D909 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D910 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D911 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D912 | 8-719-210-39 | DIODE EC10QS-04 | | | |
| D913 | 8-719-210-33 | DIODE EC10DS2 | | | |

## POWER | POWER SW | PT | RF

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| D914 | 8-719-210-33 | DIODE | EC10DS2 | | | |
| D915 | 8-719-210-33 | DIODE | EC10DS2 | | | |
| D916 | 8-719-210-33 | DIODE | EC10DS2 | | | |
| D917 | 8-719-210-33 | DIODE | EC10DS2 | | | |
| D918 | 8-719-210-33 | DIODE | EC10DS2 | | | |
| D919 | 8-719-210-33 | DIODE | EC10DS2 | | | |
| D920 | 8-719-210-33 | DIODE | EC10DS2 | | | |
| D921 | 8-719-977-81 | DIODE | DTZ33B | | | |
| D922 | 8-719-069-60 | DIODE | UDZSTE-179.1B | | | |
| D923 | 8-719-210-39 | DIODE | EC10QS-04 | | | |
| | | < TERMINAL > | | | | |
| * EB901 | 1-537-738-21 | TERMINAL, EARTH | | | | |
| | | < IC > | | | | |
| IC901 | 8-759-604-86 | IC | M5F7807L | | | |
| IC902 | 8-759-604-90 | IC | M5F7907L | | | |
| IC903 | 8-759-231-53 | IC | TA7805S | | | |
| IC904 | 8-759-445-59 | IC | BA033T | | | |
| IC905 | 8-759-394-35 | IC | BA12T | | | |
| IC906 | 8-759-450-47 | IC | BA05T | | | |
| | | < COIL/IC LINK > | | | | |
| L904 | 1-424-122-11 | FILTER, NOISE | | | | |
| L905 | 1-424-122-11 | FILTER, NOISE | | | | |
| L906 | 1-576-390-11 | LINK, IC (2.5A) | | | | |
| L907 | 1-576-390-11 | LINK, IC (2.5A) | | | | |
| L908 | 1-424-122-11 | FILTER, NOISE | | | | |
| | | < TRANSISTOR > | | | | |
| Q921 | 8-729-041-38 | TRANSISTOR | 2SB1241-Q-TV2 | | | |
| | | < RESISTOR/FERRITE BEAD > | | | | |
| R911 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R912 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R913 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R914 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R915 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R921 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R922 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R923 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R924 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R925 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R926 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R927 | 1-414-234-22 | FERRITE | 0uH | | | |
| R951 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R952 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | |
| ⚠R954 | 1-212-869-00 | FUSIBLE | 33 | 5% | 1/4W | F |
| R956 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R957 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W | |
| ********** | | | | | | |
| | 1-683-975-11 | POWER SW BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| ⚠C997 | 1-113-927-11 | CERAMIC | 10000PF | 20% | 250V | |
| | | < SWITCH > | | | | |
| ⚠S991 | 1-572-267-21 | SWITCH, PUSH (AC POWER) (1KEY) (POWER) | | | | |
| ********** | | | | | | |
| | 1-683-973-11 | PT BOARD | | | | |
| | | ********* | | | | |
| | | < CAPACITOR > | | | | |
| ⚠C995 | 1-113-927-11 | CERAMIC | 10000PF | 20% | 250V | |
| ⚠C996 | 1-113-927-11 | CERAMIC | 10000PF | 20% | 250V | |
| | | < CONNECTOR > | | | | |
| * CN991 | 1-573-047-11 | PIN, CONNECTOR (PC BOARD) 2P | | | | |
| CN992 | 1-564-321-00 | PIN, CONNECTOR (3.96mm PITCH) 2P | | | | |
| * CN993 | 1-564-518-11 | PLUG, CONNECTOR 3P | | | | |
| * CN994 | 1-564-523-11 | PLUG, CONNECTOR 8P | | | | |
| | | < LINE FILTER > | | | | |
| ⚠L901 | 1-424-485-11 | FILTER, LINE | | | | |
| ********** | | | | | | |
| | A-4728-128-A | RF BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C001 | 1-164-676-11 | CERAMIC CHIP | 2200PF | 5% | 16V | |
| C002 | 1-164-676-11 | CERAMIC CHIP | 2200PF | 5% | 16V | |
| C003 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C004 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | |
| C006 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | |
| C007 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | |
| C008 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C009 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C010 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C011 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | |
| C012 | 1-164-172-11 | CERAMIC CHIP | 0.0056uF | 10% | 25V | |
| C013 | 1-164-172-11 | CERAMIC CHIP | 0.0056uF | 10% | 25V | |
| C014 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | |
| C015 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | |
| C016 | 1-164-218-11 | CERAMIC CHIP | 180PF | 0.25PF | 50V | |
| C017 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C018 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C020 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C021 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C022 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V | |
| C023 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | |
| C025 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | |
| C026 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C027 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | |
| C028 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V | |
| C029 | 1-117-370-11 | CERAMIC CHIP | 10uF | | 10V | |
| C030 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

RF

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C031 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C032 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C036 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C037 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V |
| C038 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C039 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C040 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C041 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C042 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C043 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C044 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C045 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V |
| C046 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C047 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C048 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C050 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V |
| C051 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C052 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C055 | 1-126-205-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C060 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C064 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C090 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C094 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V |
| C095 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | < CONNECTOR > | | | |
| CN002 | 1-770-161-21 | PIN, CONNECTOR (PC BOARD) 6P | | | |
| CN003 | 1-794-707-11 | CONNECTOR, FFC/FPC 25P | | | |
| CN005 | 1-815-346-11 | CONNECTOR, FFC/FPC 30P | | | |
| | | < DIODE > | | | |
| D001 | 8-719-016-74 | DIODE 1SS352 | | | |
| D002 | 8-719-016-74 | DIODE 1SS352 | | | |
| | | < IC > | | | |
| IC001 | 8-752-424-87 | IC CXD1881AR-2 | | | |
| IC004 | 8-759-058-45 | IC NJM3403AV | | | |
| | | < COIL > | | | |
| L001 | 1-412-031-11 | INDUCTOR CHIP | 47uH | | |
| | | < TRANSISTOR > | | | |
| Q001 | 8-729-805-25 | TRANSISTOR | 2SB1121-S | | |
| Q003 | 8-729-805-25 | TRANSISTOR | 2SB1121-S | | |
| Q004 | 8-729-048-50 | FET | 2SK3018-T106 | | |
| Q005 | 8-729-048-50 | FET | 2SK3018-T106 | | |
| | | < RESISTOR > | | | |
| R001 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R002 | 1-218-668-11 | METAL CHIP | 100 | 0.5% | 1/16W |
| R003 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R004 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R005 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R006 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R007 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R008 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R015 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R017 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R019 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R020 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R021 | 1-219-570-11 | RES-CHIP | 10M | 5% | 1/10W |
| R022 | 1-218-718-11 | METAL CHIP | 12K | 0.5% | 1/16W |
| R023 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R024 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R025 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R029 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R035 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R036 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R044 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R046 | 1-218-668-11 | METAL CHIP | 100 | 0.5% | 1/16W |
| R065 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R066 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R082 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R083 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R084 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R085 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R086 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R087 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R090 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R092 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R093 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R094 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R097 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W |
| ********** | | | | | |
| | | MISCELLANEOUS | | | |
| | | ********** | | | |
| 11 | 1-775-104-11 | WIRE (FLAT TYPE) (11 CORE) | | | |
| 106 | 1-500-249-11 | BEAD, FERRITE (CASE) | | | |
| 107 | 1-757-772-12 | WIRE (FLAT TYPE) (30 CORE) | | | |
| ⚠110 | 1-777-071-43 | CORD, POWER | | | |
| 113 | 1-775-172-11 | WIRE (FLAT TYPE) (19 CORE) | | | |
| ⚠552 | 8-820-176-03 | OPTICAL PICK-UP KHM-234AMA/J1RP | | | |
| 557 | 1-757-097-11 | WIRE (FLAT TYPE) (25 CORE) | | | |
| M151 | A-4604-363-A | MOTOR (L) ASSY (LOADING) | | | |
| ⚠T901 | 1-435-971-11 | TRANSFORMER, POWER | | | |
| ⚠T902 | 1-435-969-11 | TRANSFORMER, POWER | | | |
| ********** | | | | | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | ACCESSORIES | |
| | | ********** | |
| | 1-476-598-12 | REMOTE COMMANDER (RM-SX700) | |
| ⚠ | 1-770-019-51 | ADAPTOR, CONVERSION PLUG (UK) | |
| | 1-791-732-12 | CORD, CONNECTION (RED AND WHITE AUDIO CORD) | |
| | 4-244-278-11 | MANUAL, INSTRUCTION (ENGLISH) (UK) | |
| | 4-244-278-21 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH) (AEP) | |
| | 4-244-278-31 | MANUAL, INSTRUCTION (DUTCH, SWEDISH, ITALIAN, POLISH) (AEP) | |
| | 4-244-278-41 | MANUAL, INSTRUCTION (PORUTUGUESE) (AEP) | |
| | 4-244-278-51 | MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP) | |
| | 4-244-278-61 | MANUAL, INSTRUCTION (RUSSIAN) (AEP) | |
| | 4-244-279-11 | MANUAL, INSTRUCTION (GREEK) (AEP) | |
| | 4-244-279-21 | MANUAL, INSTRUCTION (HUNGARIAN, CZECH) (AEP) | |
| | 4-244-279-31 | MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (AEP) | |
| | 4-244-279-41 | MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (AEP) | |
| | 4-228-696-01 | COVER, BATTERY (for RM-SX700) | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

*MEMO*

# REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

| Ver. | Date | Description of Revision |
|---|---|---|
| 1.0 | 2003.04 | New |
| | | |
| | | |
| | |